



Title Page

A PHASE 1, OPEN-LABEL, SINGLE-ARM STUDY TO EVALUATE THE PHARMACOKINETICS, SAFETY, AND TOLERABILITY FOLLOWING SINGLE AND MULTIPLE DOSES OF SISUNATOVIR IN CHINESE HEALTHY PARTICIPANTS

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Phase:	1
Sponsor Legal Address:	Pfizer Inc. 66 Hudson Boulevard East New York, NY 10001

Brief Title: A Study to Learn How the Study Medicine Called Sisunatovir is Tolerated and Acts in the Body in Chinese Healthy Adults

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1. PROTOCOL SUMMARY

1.1. Synopsis

Protocol Title:

A Phase 1, Open-Label, Single-Arm Study to Evaluate the Pharmacokinetics, Safety, and Tolerability Following Single and Multiple Doses of Sisunatovir in Chinese Healthy Participants

Brief Title: A Study to Learn How the Study Medicine Called Sisunatovir is Tolerated and Acts in The Body in Chinese Healthy Adults

Regulatory Agency Identification Number(s):

US IND Number:	Not applicable
EudraCT/EU CT Number:	Not Applicable
ClinicalTrials.gov ID:	Not Available
Pediatric Investigational Plan Number:	Not Applicable
Protocol Number:	C5241018
Phase:	1

Rationale:

The purpose of the study is to evaluate the PK, safety and tolerability of sisunatovir (PF-07923568) in Chinese healthy adult participants. This information is being collected to support further clinical development as well as drug registration in China.

Objectives and Endpoints:

Objectives	Endpoints
Primary:	Primary:
<ul style="list-style-type: none"> To evaluate the PK of sisunatovir after single dose and multiple doses in Chinese healthy participants 	Sisunatovir plasma exposure for single and multiple doses: <ul style="list-style-type: none"> Post dose on Day 1: C_{max}, AUC_{last}, AUC_{tau} ($tau=12$), and AUC_{inf} as data permit. Post first dose on Day 4: C_{max}, AUC_{tau} Post dose on Day 8: C_{max}, AUC_{tau}
Secondary:	Secondary:
<ul style="list-style-type: none"> To further characterize the PK profile of sisunatovir after single dose and multiple doses in Chinese healthy participants 	Additional sisunatovir plasma PK parameters: <ul style="list-style-type: none"> Post dose on Day 1: T_{max}, $t_{1/2}$, MRT, V_z/F, and CL/F as data permit Post first dose on Day 4: T_{max} Post dose on Day 8: T_{max}, $t_{1/2}$, accumulation ratio on AUC_{tau} (R_{ac}) and on C_{max} (R_{ac}, C_{max}), MRT, V_z/F, CL/F, C_{trough}, C_{av}, AUC_{last}, AUC_{inf} and PTR as data permit

Objectives	Endpoints
<ul style="list-style-type: none">To evaluate the safety and tolerability of sisunatovir following single and multiple doses in Chinese healthy participants	<ul style="list-style-type: none">AEs/SAEs, clinical safety laboratory tests, vital signs, 12-lead ECGs

Overall Design:

This is a Phase 1, single-center, open-label and single arm study to investigate PK, safety and tolerability of sisunatovir of 200 mg administered as a single dose on Day 1 in a fasted state followed by repeated twice daily doses (Q12 hours) from Days 4-7 plus 1 morning dose on Day 8 in a fed state in Chinese healthy participants.

Approximately 12 participants will receive sisunatovir.

Number of Participants:

Approximately 12 participants will be enrolled in the study. Participants who fail to complete the study may be replaced at the discretion of the sponsor and investigator.

Note: “Enrolled” means participants’, or their legally authorized representative’s, agreement to participate in a clinical study following completion of the informed consent process and assignment to study intervention.

Study Population:

Key inclusion and exclusion criteria are listed below:

Inclusion Criteria

Participants must meet the following key inclusion criteria to be eligible for enrollment into the study:

1. Chinese male and female participants aged 18 to 65 years of age, inclusive, at the time of signing of the informed consent document (ICD).
2. Male and female participants who are overtly healthy as determined by medical evaluation including medical history, physical examination, standard 12-lead ECG, and laboratory tests.
3. Body mass index (BMI) of 19 to 27 kg/m²; and a total body weight >50 kg (110 lb).

Exclusion Criteria

Participants with any of the following characteristics/conditions will be excluded:

1. Evidence or history of clinically significant hematological, renal, endocrine, pulmonary, gastrointestinal, cardiovascular, hepatic, psychiatric, neurological, or allergic disease (including drug allergies, but excluding untreated, asymptomatic, seasonal allergies at the time of dosing).
 - Any condition possibly affecting drug absorption (eg, gastrectomy, cholecystectomy).
2. Any medical or psychiatric condition including recent (within the past year) or active suicidal ideation/behavior or laboratory abnormality, or other conditions or situations related to coronavirus disease 2019 (COVID-19) pandemic that may increase the risk of study participation or, in the investigator's judgment, make the participant inappropriate for the study.
3. Use of prescription or nonprescription drugs and dietary and herbal supplements within 7 days or 5 half-lives (whichever is longer) prior to the first dose of study intervention with the exception of moderate/strong cytochrome P4503A (CYP3A) inducers or time-dependent inhibitors which are prohibited within 14 days plus 5 half-lives prior to the first dose of study intervention.
4. A positive urine drug test, confirmed by a repeat test, if deemed necessary.
5. Screening supine blood pressure (BP) ≥ 140 mm Hg (systolic) or ≥ 90 mm Hg (diastolic), following at least 5 minutes of supine rest. If BP is ≥ 140 mm Hg (systolic) or ≥ 90 mm Hg (diastolic), the BP should be repeated 2 more times and the average of the 3 BP values should be used to determine the participant's eligibility.
6. Standard 12-lead ECG that demonstrates clinically relevant abnormalities that may affect participant safety or interpretation of study results (eg, QTc corrected using Fridericia's formula [QTcF] > 450 ms, complete left bundle branch block [LBBB], signs of an acute or indeterminate- age myocardial infarction, ST-segment and T-wave [ST-T] interval changes suggestive of myocardial ischemia, second- or third-degree AV block, or serious bradyarrhythmias or tachyarrhythmias). If the uncorrected QT interval is > 450 ms, this interval should be rate-corrected using the Fridericia method only and the resulting QTcF should be used for decision making and reporting. If QTcF exceeds 450 ms, or quantitative restrictions (QRS) exceeds 120 ms, the ECG should be repeated twice and the average of the 3 QTcF or QRS values used to determine the participant's eligibility. Computer interpreted- ECGs should be overread by a physician experienced in reading ECGs before excluding a participant.

7. Participants with **ANY** of the following abnormalities in clinical laboratory tests at screening, as assessed by the study-specific laboratory and confirmed by a single repeat test, if deemed necessary:
- Glomerular filtration rate (GFR) <60 mL/min/1.73m² based on chronic kidney disease epidemiology (CKD-EPI equation);
 - Aspartate aminotransferase (AST) or alanine aminotransferase (ALT) level $\geq 1.05 \times$ upper limit of normal (ULN);
 - Gamma-glutamyl transferase (GGT) $> 1.05 \times$ ULN;
 - Alkaline phosphatase $> 1.05 \times$ ULN;
 - Total bilirubin level $\geq 1.05 \times$ ULN; participants with a history of Gilbert's syndrome may have direct bilirubin measured and would be eligible for this study provided the direct bilirubin level is \leq ULN.

Study Arms and Duration:

The duration of the study for a participant will be up to approximately 71 days and includes:

- Screening period: up to ~28 days (Day -28 to Day -1)
- Clinical confinement period (Treatment period): 12 days (Day -1 to Day 11)
- Outpatient follow-up period: ~26 to 33 days (Day 11 to Day 37-44)

A follow up contact will be completed at least 28 calendar days and up to 35 calendar days after the last dose of sisunatovir to capture any potential AEs and concomitant treatments, and to confirm appropriate contraception usage. This follow-up assessment may be conducted via telephone.

Study Intervention(s)	
Intervention Name	PF-07923568 (sisunatovir)
Use	Experimental
IMP or NIMP/AxMP	IMP
Dose Formulation	Capsule
Unit Dose Strength(s)	50 mg
Route of Administration	Oral

Study Arm(s)	
Arm Title	Sisunatovir 200 mg
Arm Description	Participants will receive sisunatovir of 200 mg administered as a single dose on Day 1 in a fasted state followed by repeated twice daily doses (Q12 hours) from Days 4-7 plus 1 morning dose on Day 8 in a fed state.

Statistical Methods:

There is no statistical hypothesis for this study, therefore, the study sample size is not based on any statistical decision rule. The sample size of approximately 12 Chinese participants is based on the China regulatory requirement for a China PK study and to support the registration in China. Based on previous experience, the chosen sample size of 12 participants is considered to be sufficient to fulfill the objectives of the study and the need to minimize exposure to healthy participants. Participants who fail to complete the study may be replaced at the discretion of the sponsor and investigator.

- The plasma PK parameters for sisunatovir, following single dose in a fasted state and repeated twice daily doses in a fed state, will be derived from the plasma concentration-time profiles. Actual PK sampling times will be used in the derivation of PK parameters. Sisunatovir PK parameters will be listed and descriptively summarized by study day. Box and whisker plots will be generated for AUC_{last} , AUC_{inf} , AUC_{tau} , and C_{max} . The plasma concentrations of sisunatovir will be listed and descriptively summarized by study day and nominal PK sampling times. Individual participant and summary profiles (mean and median plots) of the plasma concentration-time data will be plotted using actual and nominal sampling times, respectively.
- Safety data (AEs, ECGs, vital signs, and safety laboratory data) will be summarized and presented in tabular format where appropriate.

Ethical Considerations:

Sisunatovir is not expected to provide any clinical benefit to healthy participants. This study is designed primarily to generate safety, tolerability and pharmacokinetic data in healthy Chinese participants for further clinical development.

1.2. Schema

Not applicable.

1.3. Schedule of Activities

The SoA table provides an overview of the protocol visits and procedures. Refer to the [STUDY ASSESSMENTS AND PROCEDURES](#) section of the protocol for detailed information on each procedure and assessment required for compliance with the protocol.

The investigator may schedule visits (unplanned visits) in addition to those listed in the SoA table, in order to conduct evaluations or assessments required to protect the well-being of the participant.

Table 1. Study Schedule of Assessment

Visit Identifier Abbreviations used in this table may be found in Appendix 9 .	Screen	Single Dose Period					Multiple Dose Period								F/U	ET	Notes
Days Relative to Day 1	Day - 28 to Day -2	Day -1	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	28-35 days after last dosing			<ul style="list-style-type: none"> All screening should be done ≤ 28 days before the first dose. Day relative to start of study intervention (Day 1). Follow-up may occur via telephone contact and must occur 28 to 35 days after administration of the last dose of study intervention.
Informed consent	X																<ul style="list-style-type: none"> Informed consent should be obtained prior to undergoing any study-specific procedures. See Section 10.1.3 for additional information.
CRU confinement		X	→	→	→	→	→	→	→	→	→	→	X				
Inclusion/exclusion criteria	X	X															
Medical/medication history	X	X															
Physical exam	X	X													X		<ul style="list-style-type: none"> PE at Screening or Day -1 only. A brief PE at other times at the discretion of the investigator. Including height and weight at screening only.

Table 1. Study Schedule of Assessment

Visit Identifier Abbreviations used in this table may be found in Appendix 9 .	Screen	Single Dose Period				Multiple Dose Period								F/U	ET	Notes
Days Relative to Day 1	Day - 28 to Day -2	Day -1	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	28-35 days after last dosing		<ul style="list-style-type: none"> All screening should be done ≤ 28 days before the first dose. Day relative to start of study intervention (Day 1). Follow-up may occur via telephone contact and must occur 28 to 35 days after administration of the last dose of study intervention.
Safety laboratory	X	X			X		X						X		X	<ul style="list-style-type: none"> Participants should fast for at least 4 hours before safety labs are drawn, see Table 5. Include urinalysis.
Demography	X															
Pregnancy test (WOCBP only)	X	X													X	<ul style="list-style-type: none"> ET pregnancy testing only if participant withdraws while not admitted to the CRU.
Contraception check	X	X											X	X	X	
FSH (post-menopausal women only)	X															
Alcohol breath test		X														
Urine drug testing	X	X														
Single 12-Lead ECG	X		X										X		X	<ul style="list-style-type: none"> On Day 1, at pre-dose (-1 hour) and 6 hours (± 15 minutes) post-dose.
Vital signs	X		X										X		X	<ul style="list-style-type: none"> Vital signs include supine blood pressure, pulse rate, and temperature. On Day 1, at pre-dose (-1 hour) and 6 hours (± 15 minutes) post-dose.

Table 1. Study Schedule of Assessment

Visit Identifier Abbreviations used in this table may be found in Appendix 9 .	Screen	Single Dose Period				Multiple Dose Period								F/U	ET	Notes
Days Relative to Day 1	Day - 28 to Day -2	Day -1	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	28-35 days after last dosing		<ul style="list-style-type: none"> All screening should be done ≤ 28 days before the first dose. Day relative to start of study intervention (Day 1). Follow-up may occur via telephone contact and must occur 28 to 35 days after administration of the last dose of study intervention.
Chest radiography	X															<ul style="list-style-type: none"> Chest X-ray or other appropriate diagnostic imaging (ie, CT or MRI) should be performed at screening (unless taken within 3 months prior to the screening). Chest X-rays are required and should be performed as per local guidelines. See Section 8.3.4.
Serology: HIV, HBsAg, HBsAb, HBcAb, HCVAb and serological reaction of syphilis	X															
HBVDNA	X															<ul style="list-style-type: none"> May be not needed. Refer to Section 5.2
COVID-19 related procedures	X	X	→	→		→	→	→	→	→	→	→	→	X	X	<ul style="list-style-type: none"> Performed per local procedures
Study intervention administration			X			X	X	X	X	X						<ul style="list-style-type: none"> BID on Days 4-7 and QD in AM on Day 8

Table 1. Study Schedule of Assessment

Visit Identifier Abbreviations used in this table may be found in Appendix 9 .	Screen	Single Dose Period				Multiple Dose Period								F/U	ET	Notes
Days Relative to Day 1	Day - 28 to Day -2	Day -1	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Day 8	Day 9	Day 10	Day 11	28-35 days after last dosing		<ul style="list-style-type: none"> All screening should be done ≤ 28 days before the first dose. Day relative to start of study intervention (Day 1). Follow-up may occur via telephone contact and must occur 28 to 35 days after administration of the last dose of study intervention.
Pharmacokinetic blood sampling			X	X	X	X		X	X	X	X	X	X		X	<ul style="list-style-type: none"> PK sampling (Table 2) at 0 hour prior to morning dose on Day 6 and Day 7 On Day 1 and Day 4, PK sampling at 0 hour (-15 minutes) prior to morning dose; time window for other PK sampling refer to Section 8.5.
CRU discharge													X			
Serious and nonserious AE monitoring	X	→	→	→		→	→	→	→	→	→	→	→	→	→	

Table 2. Pharmacokinetic Sampling Times

Visit Identifier	On-Treatment Period														Notes
Study Day	Day 1, Day 4 and Day 8														
Hours Before/After Dose	0	1	2	3	4	5	6	8	10	12	14	24	48	72	Hour 0 = predose sample collection
Study intervention administration	X									X					• Dosing at 12 hours only on Day 4
PK blood sampling on Day 1 and Day 8	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
PK blood sampling on Day 4	X*	X	X	X	X	X	X	X	X	X					<ul style="list-style-type: none"> • PK sample at 0 hour on Day 4 is the same sample at 72 hours post dose on Day 1. • PK sample at 12 hours post-dose must be collected prior to dosing;
PK microsampling (Tasso®) (if feasible)			X		X		X	X		X					• Time-matched to PK blood sampling. To be collected on Day 4 only.
Blood/Plasma ratio sampling (if feasible)					X		X			X					• Whole blood to be aliquoted from PK blood samples on Day 4 only.

2. INTRODUCTION

PF-07923568 (sisunatovir, formerly RV521) is being developed to act as a highly potent, selective, orally available agent to treat RSV infection. Sisunatovir is an inhibitor of RSV fusion (F) protein mediated fusion that is currently being investigated for the treatment of RSV infection.

2.1. Study Rationale

The purpose of the study is to evaluate the PK, safety and tolerability of sisunatovir (PF-07923568) in Chinese healthy adult participants. This information is being collected to support further clinical development as well as drug registration in China.

2.2. Background

RSV, a member of the *Pneumovirus* family, is a significant pathogen of the very young, immunocompromised, and the elderly. RSV is ubiquitous and is known to infect almost all children by 2 years of age.¹

The clinical manifestation of RSV infection is typically mild upper respiratory tract illness. However, in infants, young children, the immunocompromised and the elderly, it can cause serious LRTI. Infants <6 months of age are at the highest risk of severe RSV infection which can lead to hospitalization, ICU admission and even death.^{2,3,4}

The current management of RSV infection includes a combination of preventative and limited treatment measures, primarily consisting of supportive care. There are, as yet, no RSV vaccines approved in China and only 1 approved antivirals available. Ribavirin, is a nucleoside analogue, but clinical use is restricted due to its limited antiviral potency, delivery route, toxicity and teratogenic potential.^{5,6} Most current guidelines make either no recommendation or do not recommend routine use of ribavirin.⁷ The monoclonal antibody Synagis® (palivizumab) which interacts with F glycoprotein of the RSV virus and has been approved in the US and EU.^{8,9} Palivizumab (Synagis®) has been shown to provide protection in infants at risk of severe disease, but needs to be given before infection and is administered monthly throughout the winter season.⁹ It is approved for use in infants with a history of prematurity, hemodynamically significant cardiac disease or chronic lung disease of prematurity. Recently (November 2022), Nirsevimab, a monoclonal antibody to the RSV fusion (F) protein that has an extended half-life, was approved for prevention of RSV-LRTI in newborns and infants during their first RSV season in the EU.¹⁰ Despite the availability of these agents, their limited use means that treatment of RSV infection remains an area of unmet need.

Sisunatovir (PF-07923568) is a potent inhibitor of RSV F protein mediated cell-to-cell fusion and exerts antiviral activity against RSV by inhibiting viral entry into host cells. In this way, F protein inhibition may reduce both viral replication and pathology, reducing the severity of RSV-LRTI. Thus, sisunatovir may provide clinical benefit to pediatric participants with RSV disease.

Sisunatovir is a new oral, non-biologic treatment that targets the RSV F protein. Approved prophylactic treatments (Palivizumab and Nirvesimab in EU)^{10,9} also target the RSV F protein.

The sisunatovir preclinical profile, as well as the safety and tolerability data from the first human dosing studies, provide a strong rationale for the clinical development of sisunatovir.

2.2.1. Nonclinical Pharmacology

In vitro, sisunatovir has demonstrated potent inhibition of RSV F-protein-mediated cell-to-cell fusion, and of infection by a panel of RSV laboratory and clinical isolates of both A and B strains in the RSV plaque assay. Sisunatovir treatment resulted in a significant reduction in RSV infection in a human airway epithelial cell model.

In vivo, sisunatovir resulted in a marked reduction in lung virus titer in a BALB/C mouse model of RSV infection.

An in vitro secondary pharmacology study did not reveal any significant off-target-activity for sisunatovir.

Refer to the sisunatovir IB for further details.

2.2.2. Nonclinical Pharmacokinetics and Metabolism

In animal pharmacokinetic studies sisunatovir showed slow oral absorption, moderate-high CL, high volume of distribution, and oral bioavailability of 46%, 42-132%, and 44% in mouse, rat, and dog, respectively.

Plasma protein binding of sisunatovir was low to moderate across species, with average fraction unbound of 67%, 38%, 52%, 27%, and 48% in human, mouse, rat, dog and guinea pig, respectively. Repeat dosing studies in the rat show that extensive distribution of sisunatovir to the lungs occurs, resulting in high lung to plasma ratio. This effect is greater than dose proportional from 50 mg/kg to 150 mg/kg.

Consistent with the results of the midazolam DDI study (C5421004), in vitro studies indicate that CYP3A4 is the main CYP isoform that metabolizes sisunatovir with minor contribution from CYP 2D6.

In vitro studies indicate a DDI risk exists for OATP1B1/1B3, OCT1, MATE1, OCT2, and OAT3. However, ratios of unbound hepatic inlet concentrations relative to K_i values are low, and DDI risk is considered unlikely for OATPs, OCT2, and OAT3. The pharmacokinetics of OCT1 and MATE1 substrates may be altered when co-administered with sisunatovir, and therefore sensitive OCT1 and MATE1 substrates are prohibited in this protocol ([Appendix 8](#)).

In vitro studies indicate there is a risk of inhibition of CYPs 1A2, 2B6, 2C9, 2C19, and 3A4. The DDI with CYPs 1A2, 2B6, 2C9, and 2C19 is predicted to be minimal (predicted less than 25% increase in AUC of a sensitive substrate).

In vitro studies indicate that sisunatovir is a P-gp substrate; therefore, co-administration of inhibitors for the transporter (P-gp) may result in increased exposure to sisunatovir (approximately 2-fold).

Refer to the sisunatovir IB for further details.

2.2.3. Nonclinical Safety

In the repeat dose toxicity studies in adult (up to 28 days) and neonatal/juvenile rats and dogs, the MTDs were defined by body weight loss and reduced food consumption accompanied by adverse clinical observation of varying severity. In dogs, there was dose-related incidence of emesis and liquid feces at ≥ 15 mg/kg/day. The key target organ for toxicity in adult animals was the hepatobiliary system, which included both degenerative and inflammatory changes in bile duct, in rats (≥ 60 mg/kg/day) and dogs (≥ 45 mg/kg/day). In dogs, the hepatobiliary findings correlated with elevated plasma levels of ALP, ALT and GGT. In addition, the findings observed only in rats were in kidney (degeneration/regeneration of medullary tubules) at ≥ 120 mg/kg/day, heart (degeneration/necrosis of the myocardium) and lung (vascular degeneration/necrosis) at 240 mg/kg/day (non-tolerated dose) and trachea (epithelial degeneration and/or subepithelial inflammation [predominantly in females]) at 120 mg/kg/day in 14 and/or 28-day studies. In the 28-day dog repeat dose toxicity study, the NOAEL was 15 mg/kg/day corresponding to C_{\max} of 729 ng/mL and AUC_{τ} of 9510 ng.h/mL. In the 28-day rat repeat dose toxicity study, the NOAEL was 60 mg/kg/day corresponding to C_{\max} of 322 ng/mL and AUC_{τ} of 4725 ng.h/mL.

In the embryo-fetal toxicity studies in rat (GD6-17) and rabbit (GD6-18), there were no effects on pregnancy or embryo-fetal development. In rat, the NOAEL for maternal toxicity was 45 mg/kg/day based on the transient initial body weight loss followed by dose-related decreased body weight gain at ≥ 45 mg/kg/day. The NOAEL for embryo-fetal toxicity in rat was 60 mg/kg/day, corresponding to systemic maternal exposure (AUC_{24}) of 9830 ng.h/mL on Day 15 of gestation. In rabbit, maternal toxicity was limited to lower body weight gain and food intake at 45 mg/kg/day. The NOAEL for embryo-fetal development in rabbit was 45 mg/kg/day, corresponding to a systemic maternal exposure (AUC_{24}) of 220 ng.h/mL on Day 16 of gestation.

Further details of the nonclinical toxicology program are included in the IB.

2.2.4. Clinical Overview

To date, 5 clinical studies of sisunatovir have been completed; each study was conducted in healthy adults. Key design features of the completed clinical studies are provided in [Table 3](#), and summaries of the key clinical pharmacology, clinical efficacy and clinical safety data from the completed studies are provided in the sections below.

Table 3. Completed Sisunatovir Studies

Study Number (Status)	Study Type/Key Design Features	Study Population	Dose, Dosing Regimen	Formulation Used
C5241001 (previously REVC001) (completed)	Phase 1, randomized, double-blind, placebo-controlled, SAD and MAD study to evaluate the safety, tolerability, PK, and food and formulation effect	Healthy participants Part A (SAD): 24 Caucasian and 12 Japanese	Part A: 10, 30, 60, 175, 250, 350, or 525 mg single dose	DIC ^a
		Part B (MAD): 24 healthy participants	Part B: 175, 250, or 350 mg BID x 5 days for a total of 9 doses	DIC ^a
		Part C (food effect and formulation): 16 healthy participants	Part C: 200 mg single dose	DIC ^a Liquid Formulation ^a
C5241002- previously REVC002 (completed)	Phase 2a, randomized, double-blind, placebo-controlled	Healthy participants inoculated with RSV Challenge Virus (CV) 66 participants	200 mg or 350 mg BID for a total 10 doses;	DIC
C5241003 Previously REVC003 (completed)	Phase 2, randomized, double-blind, placebo-controlled study to investigate PK, safety, and tolerability	Hospitalized pediatric patients with RSV lower respiratory tract infection (LRTI): Part A – 19 Part B – 32	Part A: single dose (2.5 mg/kg for participants 6-36 months, inclusive; and 2 mg/kg for participants ≥1 month to <6 months of age) Part B: multiple doses (2.5 mg/kg in 1-<6 months and up to 5 mg/kg in 6-36 months) q12h for 5 days	DPB
C5241004- previously REVC004 (completed)	Phase 1, adaptive, part-randomized, part open-label study to evaluate drug interactions, safety and tolerability	Healthy participants; 82	200 mg; BID;	DIC
C5241005- previously REVC005 (completed)	Phase 1, open-label, single-dose, study to evaluate the PK, safety, and tolerability	Healthy participants; 9	200 mg, 4 single doses total; 1 ×: DIC (fed) 1 ×: DPB dispersed in H ₂ O (fed) 1 ×: DPB dispersed in H ₂ O (fasted) [wash-out: 3 days between each of the 3 dosing days]	DIC DPB

Table 3. Completed Sisunatovir Studies

Study Number (Status)	Study Type/Key Design Features	Study Population	Dose, Dosing Regimen	Formulation Used
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- a. A total of 8 participants received the liquid dosage formulation of sisunatovir in a solution, at a concentration of 5 mg/mL, containing hydroxypropyl- β -cyclodextrin (HBP cyclodextrin), Lycasin, flavoring agent (strawberry) benzoic acid and water, and 68 participants received DIC in the study.

There are 2 ongoing studies (recruitment completed for the first 2 studies):

- A Phase 1 ADME study at a single US site (C5241008, previously denoted REVC008) to assess the metabolic fate of a radio-labeled oral dose of sisunatovir in healthy participants (recruitment completed in July 2022 with a clinical study report in preparation).
- A Phase 1 PK study at a single Belgium PCRU site (C5241006) to assess the safety and tolerability, pharmacokinetics, and food effect of multiple oral doses of sisunatovir (PIC formulation). Additionally, the study is also designed to generate preliminary palatability data that will inform further development of formulations appropriate for future pediatric studies.

A total of 201 adult healthy participants have received sisunatovir in 4 completed clinical studies (C5241001, C5241002, C5241004, and C5241005) investigating the PK profile, effects of food on PK, effects of formulation on PK (C5241001, C5241005), DDIs (C5241004), and the efficacy in an RSV Viral Challenge Study (C5241002) at doses ranging from 10 mg to 525 mg. In addition, in one completed pediatric study, 41 pediatric patients hospitalized due to RSV LRTI have received either a single dose (N = 19) or multiple BID doses of up to 5 days of sisunatovir in the ongoing C5241003 study (N=22).

In adult studies, the administration of sisunatovir was well tolerated at all doses, dosage forms, and dosing regimens tested. In the adult healthy participants treated to date, the occurrence of TEAEs considered related to sisunatovir has been low. Most commonly reported treatment-related TEAEs were in the GI disorders SOC; nausea, diarrhea, and abdominal pain. These TEAEs have been mild to moderate in intensity and resolved without sequelae.

As of 04 April 2023, there have been no SAEs attributable to sisunatovir and no deaths in the clinical studies. There has been one serious AE of pyrexia reported in the pediatric study (C5241003) in a child hospitalized with RSV infection who received a single dose of sisunatovir. This was considered serious because it prolonged hospitalization, but the SAE was reported as not related to IMP. In Study C5241002 there was 1 SAE of sub-acute myocarditis reported for a participant on placebo; this was considered to be causally related to the challenge virus.

In adults, sisunatovir is slowly absorbed reaching maximum plasma concentrations (T_{max}) at 5-6 hrs with a half-life of 7-10 hrs in healthy participants. Steady-state concentrations were reached after approximately 2 days of dosing and resulting in a 2-4 fold accumulation of exposure. AUC and C_{max} values increased in a greater than dose proportional manner across single and multiple dose studies. Following 5 days of dosing, the variability in PK parameters was high, with %CV ranging from 67.4%-84% for C_{max} and 71.9%-144% for AUC₁₂.

The effect of food on the single dose PK was assessed for the DIC formulation and DPB formulation dispersed in water. For the DIC the extent of systemic exposure to sisunatovir (geometric mean AUC_{inf} under fed and fasted conditions) was 357 and 221 ng•h/mL, respectively, with the between-subject variability being lower under fed conditions (%CV 64.1% compared with 198%). The ratio of fed/fasted was 218% (90% CI 94.2% - 502%) for C_{max} and 190% (90% CI 86.2% – 418%) for AUC_{inf}. It should be noted that the DIC fasted results from C5241001 were lower than typically seen in other studies with 200 mg administered under fasting conditions, resulting in an artificially higher ratio of fed/fasted in this study. For the DPB dispersed in water the extent of systemic exposure to sisunatovir (geometric mean AUC_{inf}) under fed and fasted conditions was 371 and 337 ng•h/mL, respectively, with the between-subject variability being slightly lower under fasted conditions (%CV 49.0% compared with 61.6%). The ratio of fed/fasted was 107.7% (90% CI 78.0% – 148.8%) for C_{max} and 110.0% (90% CI 85.6% – 141.4%) for AUC_{inf}.

Study C5241004 demonstrated that the disposition of sisunatovir was affected by moderate to strong inhibitors and inducers of CYP3A4. Furthermore, sisunatovir was demonstrated to be a moderate inhibitor of CYP3A4, so dose adjustments for compounds that are sensitive substrates for CYP3A4 may need to be considered.

In an RSV challenge study (C5241002), sisunatovir treatment resulted in a statistically significant reduction in AUC of RSV viral load compared with placebo; 55.25% (p=0.007) and 63.05% (p=0.002) for the 200 mg and 350 mg sisunatovir dose groups, respectively (dosed every 12 hrs [Q12H] for 5 days). Results for the AUC of total symptom score were consistent with the viral load AUC. Geometric mean AUCs of total symptom score were 195.56, 30.79, and 31.76 hrs × score for placebo, 200 mg sisunatovir and 350 mg sisunatovir, respectively. The reduction in AUCs of total symptom score compared with placebo was statistically significant for both sisunatovir treatment groups; p=0.009 (84.26%) and p=0.002 (83.76%), (Wilcoxon Rank-Sum test) for the 200 mg and 350 mg sisunatovir dose groups, respectively.

No participant in Study C5241001 had a QTcF interval change from baseline > 30 ms. Furthermore, no significant QTc prolongation was detected in C-QT analyses performed in SAD participants (C5241001), MAD participants (C5241001) or DDI study participants (C5241004).

More detailed information about results of clinical studies for sisunatovir may be found in the IB.

2.3. Benefit/Risk Assessment

Sisunatovir is not expected to provide any clinical benefit to healthy participants. This study is designed primarily to generate safety, tolerability, and PK data for further clinical development.

For healthy participants participating in this study, no clinical benefit is expected. The purpose of the study is to provide the basis for further clinical development of sisunatovir as a potential new, pharmacological agent for the treatment of RSV LRTI.

As of 14 September 2022, no specific human risks have been identified; postulated risks based on nonclinical studies are summarized in [Section 2.2.3](#). The clinical impact of these potential risks will be minimized through standard, intensive, inpatient monitoring of the participants following administration of multiple oral doses of the study intervention.

More detailed information about the known and expected benefits and risks and reasonably expected AEs of sisunatovir may be found in the IB, which is the SRSD for this study. Refer to the Study Intervention(s) table in [Section 6.1](#) for a complete description of SRSDs.

2.3.1. Risk Assessment

Potential Risk of Clinical Significance	Summary of Data/Rationale for Risk	Mitigation Strategy
Study Intervention PF-07923568		
Hepatobiliary system effects	Degenerative and inflammatory changes in the bile duct of both rats (≥ 60 mg/kg/day) and dogs (≥ 45 mg/kg/day) in studies of up to 28 days, with elevated plasma levels of ALP, ALT, and GGT in dogs only. Evidence of recovery for all findings following a 14-day treatment-free period. To date, mild transient elevations of liver enzymes have been observed in a few participants within clinical studies.	Standard monitoring including laboratory (ie, transaminases, ALP, GGT) and AE monitoring.
Gastrointestinal effects	Transient dose-related incidence of emesis and liquid feces in dogs at doses ≥ 15 mg/kg/day in studies up to 28 days. Additionally, inflammation in the duodenum, gall bladder, and liver at 45 mg/kg/day noted in 28-day dog study. In completed adult clinical studies sisunatovir has been associated with mild GI AEs.	As this is an investigational agent, there is some risk that is mitigated by close observation of AEs, etc. Participants will be closely evaluated in an inpatient setting to monitor for GI AEs. If needed, palliative alleviating measures such as antiemetics may be provided.

Potential Risk of Clinical Significance	Summary of Data/Rationale for Risk	Mitigation Strategy
Cardiovascular effects	<p>Myocardial degeneration and necrosis were noted at 240 mg/kg/day (non-tolerated dose) in a 14-day rat study.</p> <p>No similar effect in rats at 120 mg/kg/day in the 28-day study, or in dogs at any dose, for 14 or 28 days.</p> <p>To date, Phase 1 studies in healthy participants and a Phase 1b study in pediatric participants has not shown clinically significant changes in safety laboratory parameters (including troponin in C5241001), ECGs and vital signs related to Sisunatovir.</p>	Monitoring will include VS, including heart rate and ECG assessments.
Other		
Risk of COVID-19 exposure during study	During the pandemic, study participants could be exposed to the SARS-CoV-2 virus during study participation. This could lead to increased health risk for this participant and others in the study.	Assessment of risk for, symptoms of, or testing for COVID-19 may be performed at screening, admission to the CRU, and/or at other times during the study at investigator discretion and according to local site policies.

2.3.2. Benefit Assessment

For healthy participants participating in this study, no clinical benefit is expected.

2.3.3. Overall Benefit/Risk Conclusion

This study is designed primarily to generate PK, safety, and tolerability data in Chinese individuals.

Taking into account the measures to minimize risk to study participants, the potential risks identified in association with sisunatovir are justified by the broader potential benefits to patients with RSV, if further development of sisunatovir is successful.

3. OBJECTIVES AND ENDPOINTS

Objectives	Endpoints
Primary:	Primary:
<ul style="list-style-type: none"> To evaluate the PK of sisunatovir after single dose and multiple doses in Chinese healthy participants 	Sisunatovir plasma exposure for single and multiple doses: <ul style="list-style-type: none"> Post dose on Day 1: C_{max}, AUC_{last}, AUC_{tau} ($tau=12$), and AUC_{inf} as data permit. Post first dose on Day 4: C_{max}, AUC_{tau} Post dose on Day 8: C_{max}, AUC_{tau}
Secondary:	Secondary:
<ul style="list-style-type: none"> To further characterize the PK profile of sisunatovir after single dose and multiple doses of sisunatovir in Chinese healthy participants 	Additional sisunatovir plasma PK parameters: <ul style="list-style-type: none"> Post dose on Day 1: T_{max}, $t_{1/2}$, MRT, V_z/F, and CL/F as data permit Post first dose on Day 4: T_{max} Post dose on Day 8: T_{max}, $t_{1/2}$, accumulation ratio on AUC_{tau} (R_{ac}) and on C_{max} ($R_{ac,Cmax}$), MRT, V_z/F, CL/F, C_{trough}, C_{av}, AUC_{last}, AUC_{inf} and PTR as data permit
<ul style="list-style-type: none"> To evaluate the safety and tolerability of sisunatovir following single and multiple dose in Chinese healthy participants 	<ul style="list-style-type: none"> AEs/SAEs, clinical safety laboratory tests, vital signs, 12-lead ECGs
Tertiary/Exploratory:	Tertiary/Exploratory:
CCI	
<ul style="list-style-type: none"> To explore PK of sisunatovir by microsampling technique, if feasible 	<ul style="list-style-type: none"> Concentration of sisunatovir from paired samples obtained via microsampling compared to plasma sampling (if possible)

4. STUDY DESIGN

4.1. Overall Design

This is a Phase 1, single-center, open-label and single-arm study to investigate PK, safety and tolerability of 200 mg sisunatovir given as a single dose on Day 1 in a fasted state followed by repeated twice daily doses (200 mg BID, Q12 hours) from Days 4-7 plus 1 morning dose on Day 8 in a fed state in Chinese healthy participants. Approximately 12 participants in total will be included in this study. If a participant discontinues before completing the study, or withdraws for reasons unrelated to the safety of the treatment, the participant may be replaced at the discretion of the investigator upon consultation with the sponsor.

A summary of the schedule of study participation and procedures is provided (see [Schedule of Activities](#)). The study will consist of a Screening visit, a Treatment period of single dosing (Day -1 to Day 3) and multiple dosing (Day 4 to Day 11), and a Follow-up contact. The total duration of participation from the Screening visit to the Follow-up contact will be up to approximately 71 days.

The study period will begin with informed consent from the first participant and will end with the follow up examination of the last participant.

Informed consent to participate in the study will be obtained before initiation of any trial-related activities. Screening examination will be conducted within 28 days before the first study drug administration. Participants will be admitted to the CRU on Day -1, 1 day before the first study drug administration. On Day 1 after fasting for at least 10 hours, all participants will receive a single oral dose of sisunatovir 200 mg at approximately 8:00 am \pm 2 hours in the morning. The participants will be maintained in a fasted state for 4 hours after dosing and undergo serial PK blood sampling for 72 hours post-dose. On Days 4 to 7, participants will receive oral dose of sisunatovir 200 mg twice daily (Q12 hours) in a fed state. On Day 8, the dosing of sisunatovir will be administered under fed condition at approximately 8:00 am \pm 2 hours in the morning. Participants may be discharged on Day 11 after all study procedures are completed.

A follow up contact will be completed at least 28 calendar days and up to 35 calendar days after the last dose of investigational product to capture any potential AEs and concomitant treatments, and to confirm appropriate contraception usage. This follow-up assessment may be conducted via telephone.

4.2. Scientific Rationale for Study Design

The primary purpose of this study is to characterize the PK of sisunatovir in healthy Chinese adult participants. The selected dose in this study was well tolerated in previous clinical studies and therefore placebo control to evaluate safety is not needed. Males and females are to be recruited in the study.

Single- and multiple-dose periods are included in this study to allow characterization of the PK of sisunatovir following single dose and multiple doses in healthy Chinese participants. Repeated dosing for 5 days is sufficient for sisunatovir to reach its steady state, based on previous PK data and will permit comparison to PK data in Japanese and Westerners from Study C5241001, C5241005 and C5241006 which collected steady-state data on Day 5. Blood sampling up to 72 hours post-dose is adequate for the characterization of the elimination phase for sisunatovir considering its half-life of 7-10 hours.

Sisunatovir single dose on Day 1 will be administered without food in order to directly compare PK among Chinese, Japanese and Westerners. While given as repeated twice daily doses (Q12 hours) from Days 4-7 plus 1 morning dose on Day 8, sisunatovir will be given with food (typical Chinese breakfast, not high-fat high calorie) to mimic future clinical practice. Data obtained from such a design could also be helpful to preliminarily evaluate typical Chinese breakfast effect on the PK of sisunatovir.

If feasible, exploratory micro-sampling PK samples for the measurement of sisunatovir concentrations will be collected, in order to evaluate micro-sampling approach using the Tasso[®] device.

4.2.1. Choice of Contraception/Barrier Requirements

Human reproductive safety data are limited for sisunatovir, but there is no suspicion of human teratogenicity based on the intended pharmacology of the compound. Therefore, the use of a highly effective method of contraception is required (see [Appendix 4](#)).

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4.3. Justification for Dose

The study dose and duration were selected based on the safety, tolerability and PK results in previous studies and the proposed clinical dose for future studies. The dose level of 200 mg BID is current proposed dose level for the following clinical development in adults. This dose was also studied in healthy participant studies C5241001, C5241005 and C5241006, which would allow the comparison of safety and PK among Westerner, Japanese and Chinese.

The single dose up to 525 mg for sisunatovir and multiple doses up to 350 mg BID \times 5 days for a total dose of 9 doses were studied in Phase 1 study (C5241001), while a higher dose of 400 mg BID \times 5 days was studied in C5241006. Up to a single dose of 525 mg or multiple doses of 400 mg BID, sisunatovir was generally safe and well-tolerated in all healthy participants.

The effect of food on the PK of sisunatovir has been variable in Phase 1 studies. However, the effect of food on the PK of sisunatovir using the formulation to be used in this study (dry powder blend in capsules) showed minimal food effect. Therefore, the concern of unacceptable safety and tolerability due to potentially higher exposure caused by food effect is not expected in Chinese healthy participants with administration of repeated twice daily doses (Q12 hours) of sisunatovir.

4.4. End of Study Definition

The end of the study is defined as the date of the last visit of the last participant in the study.

A participant is considered to have completed the study if they have completed all visits of the study, including the last scheduled procedure shown in the [SoA](#). Follow-up visits in addition to those in the [SoA](#) may be scheduled at investigator discretion, including to monitor open AE, or based on emerging data.

5. STUDY POPULATION

This study can fulfill its objectives only if appropriate participants are enrolled, including participants across diverse and representative racial and ethnic backgrounds. If a prescreening tool is utilized for study recruitment purposes, it will include collection of information that reflects the enrollment of a diverse participant population including, where permitted under local regulations, age, sex, race, and ethnicity. The following eligibility criteria are designed to select participants for whom participation in the study is considered appropriate. All relevant medical and nonmedical conditions should be taken into consideration when deciding whether a particular participant is suitable for this protocol.

Prospective approval of protocol deviations to recruitment and enrollment criteria, also known as protocol waivers or exemptions, is not permitted.

5.1. Inclusion Criteria

Participants are eligible to be included in the study only if all of the following criteria apply:

Age and Sex:

1. Chinese male and female participants aged 18 to 65 years of age, inclusive, at the time of signing the ICD.
 - All fertile participants must agree to use a highly effective method of contraception ([Section 10.4.3](#) and [Section 10.4.4](#)).
 - Refer to [Appendix 4](#) for reproductive criteria for male ([Section 10.4.1](#)) and female ([Section 10.4.2](#)) participants.
2. Male and female participants who are overtly healthy as determined by medical evaluation including medical history, physical examination, standard 12-lead ECGs, and laboratory tests.

Other Inclusion Criteria:

3. BMI of 19 to 27 kg/m²; and a total body weight >50 kg (110 lb).
4. Capable of giving signed informed consent as described in [Appendix 1](#): Regulatory, Ethical, and Study Oversight Considerations which includes compliance with requirements and restrictions listed in the ICD and in this protocol.

5.2. Exclusion Criteria

Participants are excluded from the study if any of the following criteria apply:

Medical Conditions:

1. Evidence or history of clinically significant hematological, renal, endocrine, pulmonary, gastrointestinal, cardiovascular, hepatic, psychiatric, neurological, or allergic disease (including drug allergies, but excluding untreated, asymptomatic, seasonal allergies at the time of dosing).
 - Any condition possibly affecting drug absorption (eg, gastrectomy, cholecystectomy).
 - History of HIV infection, hepatitis B, or hepatitis C; positive testing for HIV, HBsAg, HCVAb or syphilis. Hepatitis B vaccination is allowed.
2. For hepatitis B, all participants must undergo testing for HBsAg, HBcAb, and HBsAb.
 - Participants who are negative for all 3 serology tests may be eligible.

- Participants who are HBsAg positive will be excluded.
 - HBsAg negative, HBcAb positive, and HBsAb negative participants are to be excluded from the study.
 - Participants who are HBsAg negative, HBcAb negative and HBsAb positive and provide documentation of prior HBV vaccination, may be eligible for the study and will not require HBVDNA monitoring during the study.
 - Participants who are HBsAg negative, HBcAb negative and HBsAb positive without documentation of prior HBV vaccination AND participants who are HBsAg negative, HBcAb positive, and HBsAb positive, will have HBV DNA assessed at screening.
 - If HBV DNA is detectable, participants will be excluded.
 - If HBV DNA is not detectable, participants may be eligible. If the participant is included in the study, for subsequent visits HBVDNA testing must be performed according to the investigator's guide.
3. Any medical or psychiatric condition including recent (within the past year) or active suicidal ideation/behavior or laboratory abnormality, or other conditions or situations related to COVID-19 pandemic that may increase the risk of study participation or, in the investigator's judgment, make the participant inappropriate for the study.

Prior/Concomitant Therapy:

4. Use of prescription or nonprescription drugs and dietary and herbal supplements within 7 days or 5 half-lives (whichever is longer) prior to the first dose of study intervention with the exception of moderate/strong CYP3A inducers or time-dependent inhibitors which are prohibited within 14 days plus 5 half-lives prior to the first dose of study intervention (refer to [Section 6.9](#) for additional details).

Prior/Concurrent Clinical Study Experience:

5. Previous administration with an investigational product (drug or vaccine) within 30 days (or as determined by the local requirement) or 5 half-lives preceding the first dose of study intervention used in this study (whichever is longer).

Diagnostic Assessments:

6. A positive urine drug test, confirmed by a repeat test, if deemed necessary.
7. Screening supine BP ≥ 140 mm Hg (systolic) or ≥ 90 mm Hg (diastolic), following at least 5 minutes of supine rest. If BP is ≥ 140 mm Hg (systolic) or ≥ 90 mm Hg (diastolic), the BP should be repeated 2 more times and the average of the 3 BP values should be used to determine the participant's eligibility.

8. Standard 12-lead ECG that demonstrates clinically relevant abnormalities that may affect participant safety or interpretation of study results (eg, QTcF >450 ms, complete LBBB, signs of an acute or indeterminate- age myocardial infarction, ST-T interval changes suggestive of myocardial ischemia, second- or third- degree AV block, or serious bradyarrhythmias or tachyarrhythmias). If the uncorrected QT interval is > 450 ms, this interval should be rate-corrected using the Fridericia method only and the resulting QTcF should be used for decision making and reporting. If QTcF exceeds 450 ms, or QRS exceeds 120 ms, the ECG should be repeated twice and the average of the 3 QTcF or QRS values used to determine the participant's eligibility. Computer-interpreted ECGs should be overread by a physician experienced in reading ECGs before excluding a participant.
9. Participants with **ANY** of the following abnormalities in clinical laboratory tests at screening, as assessed by the study--specific laboratory and confirmed by a single repeat test, if deemed necessary:
 - GFR <80 mL/min/1.73m² based on CKD-EPI equation;
 - AST or ALT level $\geq 1.05 \times \text{ULN}$;
 - GGT > $1.05 \times \text{ULN}$;
 - Alkaline phosphatase > $1.05 \times \text{ULN}$;
 - Total bilirubin level $\geq 1.05 \times \text{ULN}$; participants with a history of Gilbert's syndrome may have direct bilirubin measured and would be eligible for this study provided the direct bilirubin level is $\leq \text{ULN}$.

Other Exclusion Criteria:

10. History of alcohol abuse or binge drinking and/or any other illicit drug use or dependence within 6 months of Screening. Binge drinking is defined as a pattern of 5 (male) and 4 (female) or more alcoholic drinks in about 2 hours. As a general rule, alcohol intake should not exceed 14 units per week (1 unit = 8 ounces (240 mL) beer, 1 ounce (30 mL) of 40% spirit, or 3 ounces (90 mL) of wine).
11. History of sensitivity to sisunatovir or any of the formulation components.
12. Use of tobacco or nicotine-containing products in excess of the equivalent of 5 cigarettes/day or 2 chews of tobacco/day.
13. Unwilling or unable to comply with the criteria in the [Lifestyle Considerations](#) section of this protocol.
14. Investigator site staff directly involved in the conduct of the study and their family members, site staff otherwise supervised by the investigator, and sponsor and sponsor

delegate employees directly involved in the conduct of the study and their family members.

5.3. Lifestyle Considerations

The following guidelines are provided:

5.3.1. Contraception

The investigator or their designee, in consultation with the participant, will confirm that the participant is utilizing an appropriate method of contraception for the individual participant and their partner(s) from the permitted list of contraception methods (see [Appendix 4, Section 10.4.4](#)) and will confirm that the participant has been instructed in its consistent and correct use.

At time points indicated in [SoA](#), the investigator or designee will inform the participant of the need to use highly effective contraception consistently and correctly and document the conversation and the participant's affirmation in the participant's chart. Participants need to affirm their consistent and correct use of at least 1 of the selected methods of contraception, considering that their risk for pregnancy may have changed since the last visit.

In addition, the investigator or designee will instruct the participant to call immediately if the selected contraception method is discontinued and document the requirement to use an alternate protocol-specified method, including if the participant will no longer use abstinence as the selected contraception method, or if pregnancy is known or suspected in the participant or partner.

5.3.2. Meals and Dietary Restrictions

- Participants must abstain from all food and drink (except water) at least 4 hours prior to any safety laboratory evaluations and 10 hours prior to the collection of the predose PK sample.
- Water is permitted until 1 hour prior to study intervention administration. Water may be consumed without restriction beginning 1 hour after dosing. Noncaffeinated drinks (except grapefruit or grapefruit-related citrus fruit juices—see below) may be consumed with meals and the evening snack.
- No breakfast will be provided only on Day 1. On dosing days between Days 4-8, participants will consume a standard breakfast (non-high fat and high calorie, typical Chinese meal) approximately 30 minutes prior to dosing. On Day 4 and Day 8 (PK sampling days), the same standard breakfast will be provided and participants should be encouraged to complete their meals by approximately 10 minutes prior to anticipated dosing. On non dosing days, breakfast may be provided following the laboratory sample collection (as applicable). Only breakfast on Day 4 and Day 8 will be reported in the CSR. The following is an example of standard breakfast (typical Chinese meal, 699 kcal in total, 24% fat):

- 6 steamed dumplings (120 g flour, 40 g pork)
- 200 mL rice porridge (20 g rice)
- 1 egg (50 g)
- Some pickles
- Lunch will be provided approximately 4 hours after dosing.
- Dinner will be provided approximately 11 to 13 hours after morning dosing. Participants will receive the evening dose of study intervention 12 hours after the morning dose (plus or minus 1 hour) approximately 30 minutes after the start of a standard dinner that will be consumed over approximately 20 minutes.
- An evening snack may be permitted.
- Participants will refrain from consuming red wine, grapefruit, or grapefruit-related citrus fruits (eg, Seville oranges, pomelos, fruit juices) from 7 days prior to the first dose of study intervention until collection of the final PK blood sample.
- While participants are confined, their total daily nutritional composition should be approximately 55% carbohydrate, 30% fat, and 15% protein. The daily caloric intake per participant should not exceed approximately 3200 kcal.

5.3.3. Caffeine, Alcohol, and Tobacco

- Participants will abstain from caffeine-containing products for 24 hours prior to admission to the CRU and continue abstaining from caffeine-containing products during confinement in the CRU.
- Participants will abstain from alcohol for 24 hours prior to admission to the CRU and continue abstaining from alcohol during confinement in the CRU. Participants may undergo an alcohol breath test at the discretion of the investigator.
- Participants will abstain from the use of tobacco- or nicotine-containing products for 24 hours prior to admission to CRU and during confinement in the CRU.

5.3.4. Activity

- Participants will abstain from strenuous exercise (eg, heavy lifting, weight training, calisthenics, aerobics) for at least 48 hours prior to each blood collection for clinical laboratory tests. Walking at a normal pace will be permitted;

5.4. Screen Failures

Screen failures are defined as participants who consent to participate in the clinical study but are not subsequently enrolled in the study. Screen failure data are collected and remain as source and are not reported on the CRF.

Individuals who do not meet the criteria for participation in this study (screen failure) may not be rescreened.

6. STUDY INTERVENTION(S) AND CONCOMITANT THERAPY

Study interventions are all prespecified investigational and non-investigational medicinal products, medical devices, and other interventions (eg, surgical and behavioral) intended to be administered to the study participants during the study conduct.

For the purposes of this protocol, study intervention refers to sisunatovir.

6.1. Study Intervention(s) Administered

Study Intervention(s)	
Intervention Name	PF-07923568 (sisunatovir)
Type	Drug
Use	Experimental
IMP or NIMP/AxMP	IMP
Dose Formulation	Capsule
Unit Dose Strength(s)	50 mg
Dosage Level(s)	Planned doses are 200 mg SD on Day 1 in a fasted state followed by repeated twice daily doses (Q12 hours) of 200 mg from Days 4-7 in a fed state, plus 1 morning dose on Day 8 in a fed state.
Route of Administration	Oral
Sourcing	Provided centrally by the sponsor or locally by the trial site
Packaging and Labeling	Study intervention will be provided in bulk bottle along with individual dosing containers for unit dosing. Each bulk bottle will be labeled as required per country requirement. Study intervention will be provided with open label at Bulk Bottle. CRU Staff will prepare individual doses for administration.
SRSD	IB

Study Intervention(s)	
Current/Formal Name(s) or Alias(es)	Sisunatovir PF-07923568 RV521

Study Arm(s)	
Arm Title	Sisunatovir 200 mg
Arm Description	Participants will receive sisunatovir of 200 mg given as a single dose on Day 1 in a fasted state followed by repeated twice daily doses (Q12 hours) from Days 4-7 in a fed state, plus 1 morning dose on Day 8 in a fed state.

Sisunatovir will be provided by Pfizer as 50-mg capsules at the CRU.

Capsules will be supplied to the CRU in bulk along with individual dosing containers for unit dosing.

6.1.1. Administration

On Day 1, participants will receive study intervention at approximately 0800 hours (plus or minus 2 hours). On Days 4-8, participants will receive study intervention at the similar time after the start of a typical Chinese breakfast that will be consumed over approximately 20 minutes. Participants will receive the evening dose of study intervention 12 hours after the morning dose (plus or minus 1 hour) approximately 30 minutes after the start of a standard dinner that will be consumed over approximately 20 minutes. On Day 8, only the morning dose of study intervention will be administered.

Investigator site personnel will administer study intervention during each period with ambient temperature water to a total volume of approximately 240 mL. Participants may receive additional ambient temperature water up to 100 mL, if needed. This will be documented by the site. Participants will swallow the study intervention whole, and will not manipulate or chew the study intervention prior to swallowing. If the participant spit out the drug, supplement is not allowed.

On Day 1, Day 4 and Day 8 for morning dose, in order to standardize the conditions on PK sampling days, all participants will be required to refrain from lying down (except when required for BP, pulse rate, and ECG measurements), eating, and drinking beverages other than water during the first 4 hours after dosing.

Administration of study intervention(s) at the site will be performed by an appropriately qualified and trained member of the study staff as allowed by local, state, and institutional guidance.

Following administration of study intervention(s) at the site, participants will be observed by an appropriately qualified and trained member of the study staff. Appropriate medication and other supportive measures for management of a medical emergency will be available in accordance with local guidelines and institutional guidelines.

6.2. Preparation, Handling, Storage, and Accountability

1. The investigator or designee must confirm that appropriate conditions (eg, temperature) have been maintained during transit for all study interventions received and any discrepancies are reported and resolved before use of the study intervention.
2. Only participants enrolled in the study may receive study intervention and only authorized site staff may supply, prepare, and/or administer study intervention.
3. All study interventions must be stored in a secure, environmentally controlled, and monitored (manual or automated recording) area in accordance with the labeled storage conditions with access limited to the investigator and authorized site staff. At a minimum, daily minimum and maximum temperatures for all site storage locations must be documented and available upon request. Data for nonworking days must indicate the minimum and maximum temperatures since previously documented upon return to business.
4. Any excursions from the study intervention label storage conditions should be reported to Pfizer upon discovery along with actions taken. The site should actively pursue options for returning the study intervention to the labeled storage conditions, as soon as possible. Once an excursion is identified, the study intervention must be quarantined and not used until Pfizer provides permission to use the study intervention. Specific details regarding the excursion definition and information to report for each excursion will be provided to the site in the CRU procedures.
5. Any storage conditions stated in the SRSD will be superseded by the storage conditions stated on the label..
6. Study interventions should be stored in their original containers.
7. The investigator, institution, head of the medical institution (where applicable), or authorized site staff is responsible for study intervention accountability, reconciliation, and record maintenance (ie, receipt, reconciliation, and final disposition records), such as the IPAL or sponsor-approved equivalent. All study interventions will be accounted for using a study intervention accountability form/record.
8. Further guidance and information for the final disposition of unused study interventions are provided in the CRU's procedures. All destruction must be adequately documented. If destruction is authorized to take place at the investigator site, the investigator must ensure that the materials are destroyed in compliance with

applicable environmental regulations, institutional policy, and any special instructions provided by Pfizer.

Upon identification of a product complaint, notify the sponsor within 1 business day of discovery as described in the IPM.

6.2.1. Preparation and Dispensing

Within this protocol, preparation refers to the investigator site activities performed to make the study intervention ready for administration or dispensing to the participant by qualified staff. Dispensing is defined as the provision of study intervention, concomitant treatments, and accompanying information by qualified staff member(s) to a healthcare provider, participant in accordance with this protocol. Local health authority regulations or investigator site guidelines may use alternative terms for these activities.

Capsules will be prepared at the CRU in the individual dosing containers by 2 operators, 1 of whom is an appropriately qualified and experienced member of the study staff (eg, physician, nurse, physician's assistant, nurse practitioner, pharmacy assistant/technician, or pharmacist). The capsules will be provided in unit dose containers and labeled in accordance with Pfizer regulations and the clinical site's labeling requirements.

6.3. Assignment to Study Intervention

This is a non-randomized, single-arm study. All eligible participants will receive the same treatment. Following completion of informed consent at the screening visit, each participant will be assigned a participant number by the site staff. Each participant who is dosed with study intervention will also be assigned a separate, distinct number (as provided to the site by the sponsor), to enable execution of the sponsor's standard processes for analysis of PK samples.

6.4. Blinding

This is an open-label study.

6.5. Study Intervention Compliance

When the individual dose for a participant is prepared from a bulk supply, the preparation of the dose will be confirmed by a second qualified member of the study site staff.

When participants are dosed at the site, they will receive study intervention directly from the investigator or designee, under medical supervision. The date and time of each dose administered in the clinic will be recorded in the source documents and recorded in the CRF. The dose of study intervention and study participant identification will be confirmed at the time of dosing by a member of the study site staff other than the person administering the study intervention. Study site personnel will examine each participant's mouth to ensure that the study intervention was ingested.

6.6. Dose Modification

Dose modification is not allowed in this study.

6.7. Continued Access to Study Intervention After the End of the Study

No study intervention will be provided to participants at the end of their study participation.

6.8. Treatment of Overdose

Any single dose of sisunatovir greater than 300 mg or a daily dose greater than 600 mg within a 24-hour period will be considered an overdose.

There is no specific treatment for an overdose.

In the event of an overdose, the investigator should:

1. Contact the study medical monitor within 24 hours.
2. Closely monitor the participant for any AEs/SAEs and laboratory abnormalities as medically appropriate and follow up until resolution, stabilization, the event is otherwise explained, or the participant is lost to follow-up (as defined in [Section 7.3](#)).
3. Document the quantity of the excess dose as well as the duration of the overdose in the CRF.
4. Overdose is reportable to Pfizer Safety **only when associated with an SAE**.
5. Obtain a blood sample for PK analysis if requested by the study medical monitor (determined on a case-by-case basis).

Decisions regarding dose interruptions or modifications will be made by the investigator in consultation with the study medical monitor as needed based on the clinical evaluation of the participant.

6.9. Prior and Concomitant Therapy

Use of prescription or nonprescription drugs and dietary and herbal supplements are prohibited within 7 days or 5 half-lives (whichever is longer) prior to the first dose of study intervention. Limited use of nonprescription medications that are not believed to affect participant safety or the overall results of the study may be permitted on a case-by-case basis following approval by the sponsor. Acetaminophen/paracetamol may be used at doses of ≤ 1 g/day.

Females using hormonal contraceptives or taking hormone replacement therapy may be eligible to participate in this study if they are willing to discontinue therapy at least 28 days prior to the first dose of study treatment and remain off hormonal therapy for the duration of the study. Depo-Provera[®] must be discontinued at least 6 months prior to the first dose of study treatment.

All concomitant treatments taken during the study must be recorded with indication, daily dose, and start and stop dates of administration. All participants will be questioned about concomitant treatment at each clinic visit.

Treatments taken within 28 days before the first dose of study intervention will be documented as a prior treatment. Treatments taken after the first dose of study intervention will be documented as concomitant treatments.

7. DISCONTINUATION OF STUDY INTERVENTION AND PARTICIPANT DISCONTINUATION/WITHDRAWAL

7.1. Discontinuation of Study Intervention

It may be necessary for a participant to permanently discontinue study intervention. Reasons for permanent discontinuation of study intervention include the following:

- AE requiring discontinuation in investigator's view;
- Pregnancy.

If study intervention is permanently discontinued, the participant will not remain in the study for further evaluation. See the [SoA](#) for data to be collected at the time of discontinuation of study intervention.

In the event of discontinuation of study intervention, it must be documented on the appropriate CRF/in the medical records whether the participant is discontinuing further receipt of study intervention or also from study procedures, further study follow-up, and/or future collection of additional information.

7.1.1. Potential Cases of Acute Kidney Injury

Participants exposed to IMP demonstrating transient or sustained increase in Screat (with decrease in Screat-based eGFR or eCrCl) require expedited evaluation to differentiate AKI from DICI. DICI is defined as transporter-mediated effect related to altered renal tubular creatinine handling without histological injury.

AKI may be due to one or more types of injury, including DIKI. Differentiation of DIKI from other causes of AKI and from DICI may require clinical, radiographic, histopathologic, and laboratory assessments, as well as nephrology consultation.

Follow-up Assessments

The participant should return to the site for evaluation as soon as possible, preferably within 48 hours of awareness of the abnormal results.

Evaluation should include physical examination, laboratory tests, detailed medical and surgical history, review of all medications (including recreational drugs and supplements [herbal]), family history, sexual history, travel history, blood transfusion, and potential occupational exposure to chemicals.

Laboratory assessments should include simultaneous serum cystatin C (Scys) and serum creatinine (Screat) tests. Estimates of eGFR, eCrCl and Screat-based eGFR and combined Screat-Scys-based eGFR should also be derived using the appropriate equation described in [Appendix 7](#).

Assessments of urine albumin-to-creatinine ratio or urine volume may also be performed as appropriate.

If appropriate, nephrology consultation may be recommended to facilitate differentiation of renal parenchymal disease, pre-renal azotemia, and post-renal obstruction.

If appropriate, nephrology consultation may be recommended to facilitate differentiation of renal parenchymal disease, pre-renal azotemia, and post-renal obstruction.

Differentiating Acute Kidney Injury from DICI

A confirmed Screat increase is defined as:

- (i) ≥ 0.3 mg/dL (≥ 26.5 $\mu\text{mol/L}$) within 48 hours OR
- (ii) confirmed Screat increase ≥ 1.5 times baseline (known or suspected to have occurred within the prior 7 days).

Based on the assessments performed, suspected AKI (including DIKI) may be differentiated from DICI as follows.

Adult participants

	AKI (including DIKI) Any one of the below	DICI
Scys & Screat	Simultaneous, confirmed serum cystatin C (Scys) increase and confirmed Screat increase	Confirmed Screat increase without confirmed increase in reflex Scys AND Confirmed Screat-based eGFR decrease without confirmed combined Screat-Scys-based eGFR decrease.
eGFR	Decrease in Screat-based eGFR and combined Screat-Scys-based eGFR (when available)	
Albuminuria or proteinuria	Confirmed albuminuria increase (see Appendix 6 for Grades A1 to A3 quantitation)	
Urine volume	Urine volume < 0.5 mL/kg/h for 6 consecutive hours	

Regardless of the presence or absence of increase in Screat, DIKI and other causes of AKI may be suspected if either there is (i) new-onset or worsening albuminuria or proteinuria are detected or (ii) urine volume (if measured) is <0.5 mL/kg/h for 6 consecutive hours).

All confirmed cases of clinically relevant decrease in kidney function should be considered potential cases of DIKI if no other reason for the kidney function abnormalities has been found.

7.1.2. Liver Injury

A participant who meets the criteria of potential DILI (Hy's law) case as described in [Appendix 5](#) in Section 10.5 will be withdrawn from the study intervention.

7.1.3. ECG Changes

A participant who meets either bulleted criterion based on the average of ECG readings will be withdrawn from the study intervention.

- QTcF >500 ms.
- Change from baseline: QTcF >60 ms.

If a clinically significant finding is identified (including, but not limited to, changes from baseline in QTcF after enrollment), the investigator or qualified designee will determine if the participant can continue in the study and if any change in participant management is needed. This review of the ECG printed at the time of collection must be documented. Any new clinically relevant finding should be reported as an AE.

7.1.4. COVID-19

If a participant has COVID-19 during the study, this should be reported as an AE or SAE (as appropriate) and appropriate medical intervention provided. Temporary discontinuation of the study intervention may be medically appropriate until the participant has recovered from COVID-19.

It is recommended that the investigator discuss temporary or permanent discontinuation of study intervention with the study medical monitor.

7.2. Participant Discontinuation/Withdrawal From the Study

A participant may withdraw from the study at any time at their own request. Reasons for discontinuation from the study include the following:

- Refused further study procedures;
- Lost to follow-up;
- Death;

- Study terminated by sponsor;
- Pregnancy;
- Behavioral, compliance, or administrative reasons.

At the time of discontinuing from the study, if possible, an early discontinuation visit should be conducted. See the [SoA](#) for assessments to be collected at the time of study discontinuation and follow-up and for any further evaluations that need to be completed.

The early discontinuation visit applies only to participants who are enrolled/randomized and then are prematurely withdrawn from the study. Participants should be questioned regarding their reason for withdrawal.

The participant will be permanently discontinued from the study intervention and the study at that time.

If a participant withdraws from the study, they may request destruction of any remaining samples taken and not tested, and the investigator must document any such requests in the site study records and notify the sponsor accordingly.

If the participant withdraws from the study and also withdraws consent (see Section 7.2.1 for disclosure of future information, no further evaluations will be performed and no additional data will be collected. The sponsor may retain and continue to use any data collected before such withdrawal of consent.

7.2.1. Withdrawal of Consent

Participants who request to discontinue receipt of study intervention will remain in the study and must continue to be followed for protocol-specified follow-up procedures. The only exception to this is when a participant specifically withdraws consent for any further contact with them or persons previously authorized by the participant to provide this information. Participants should notify the investigator in writing of the decision to withdraw consent from future follow-up, whenever possible. The withdrawal of consent should be explained in detail in the medical records by the investigator, as to whether the withdrawal is only from further receipt of study intervention or also from study procedures and/or posttreatment study follow-up, and entered on the appropriate CRF page. In the event that vital status (whether the participant is alive or dead) is being measured, publicly available information should be used to determine vital status only as appropriately directed in accordance with local law.

7.3. Lost to Follow-Up

A participant will be considered lost to follow-up if the participant repeatedly fails to return for scheduled visits and is unable to be contacted by the study site.

The following actions must be taken if a participant fails to attend a required study visit:

- The site must attempt to contact the participant and reschedule the missed visit as soon as possible. Counsel the participant on the importance of maintaining the assigned visit schedule and ascertain whether the participant wishes to and/or should continue in the study;
- Before a participant is deemed lost to follow-up, the investigator or designee must make every effort to regain contact with the participant (where possible, 3 telephone calls and, if necessary, a certified letter to the participant's last known mailing address or local equivalent methods). These contact attempts should be documented in the participant's medical record;
- Should the participant continue to be unreachable, the participant will be considered to have withdrawn from the study.

8. STUDY ASSESSMENTS AND PROCEDURES

8.1. Administrative and Baseline Procedures

The investigator (or an appropriate delegate at the investigator site) must obtain a signed and dated ICD before performing any study-specific procedures.

Study procedures and their timing are summarized in the [SoA](#). Protocol waivers or exemptions are not allowed.

Adherence to the study design requirements, including those specified in the [SoA](#), is essential and required for study conduct.

All screening evaluations must be completed and reviewed to confirm that potential participants meet all eligibility criteria. The investigator will maintain a screening log to record details of all participants screened and to confirm eligibility or record reasons for screening failure, as applicable.

Participants will be screened within 28 days prior to administration of the study intervention to confirm that they meet the study population criteria for the study. If the time between screening and dosing exceeds 28 days as a result of unexpected delays (eg, delayed drug shipment), then participants do not require rescreening if the laboratory results obtained prior to first dose administration meet eligibility criteria.

A participant who qualified for this protocol but did not enroll from an earlier cohort/group may be used in a subsequent cohort/group without rescreening, provided laboratory results obtained prior to the first dose administration meet eligibility criteria for this study. In addition, other clinical assessments or specimen collections, may not need to be repeated, as appropriate.

Every effort should be made to ensure that protocol-required tests and procedures are completed as described. However, it is anticipated that from time to time there may be

circumstances outside the control of the investigator that make it unfeasible to perform the test. In these cases, the investigator must take all steps necessary to ensure the safety and well-being of the participant. When a protocol-required test cannot be performed, the investigator will document the reason for the missed test and any corrective and preventive actions that they have taken to ensure that required processes are adhered to as soon as possible. The study team must be informed of these incidents in a timely manner.

If an IV catheter is utilized for blood sample collections, ECGs and vital sign assessments (pulse rate and BP) should be collected prior to the insertion of the catheter.

For samples being collected and shipped, detailed collection, processing, storage, and shipment instructions and contact information will be provided to the investigator site prior to initiation of the study.

The total blood sampling volume for individual participants for PK assessment in this study is approximately 115 mL. The other blood sampling for safety or other assessments should be collected according to the [SoA](#), and the actual volume will depend on the clinical practice in the CRU. The total blood sampling volume for individual participants in this study will be described in the informed consent. The actual collection times and volumes of blood sampling may change. Additional blood samples may be taken for safety assessments at times specified by Pfizer, provided the total volume taken during the study does not exceed 550 mL during any period of 56 consecutive days.

To prepare for study participation, participants will be instructed on the information in the Lifestyle Considerations and Concomitant Therapy sections of the protocol.

8.1.1. Baseline Procedures

Planned timepoints for medical history and demography are provided in the [SoA](#).

8.2. Efficacy Assessments

Efficacy parameters are not evaluated in this study.

8.3. Safety Assessments

Planned time points for all safety assessments are provided in the [SoA](#). Unscheduled safety measurements may be obtained at any time during the study to assess any perceived safety issues.

8.3.1. Physical Examinations

A complete physical examination will include, at a minimum, head, ears, eyes, nose, mouth, skin, heart and lung examinations, lymph nodes, and gastrointestinal, musculoskeletal, and neurological systems.

A brief physical examination will include, at a minimum, assessments of general appearance, the respiratory and cardiovascular systems, gastrointestinal systems, and participant-reported symptoms.

Physical examinations may be conducted by a physician, trained physician's assistant, or nurse practitioner as acceptable according to local regulation.

Height and weight will also be measured and recorded as per the [SoA](#). For measuring weight, a scale with appropriate range and resolution is used and must be placed on a stable, flat surface. Participants must remove shoes, bulky layers of clothing, and jackets so that only light clothing remains. They must also remove the contents of their pockets and remain still during measurement of weight.

Physical examination findings collected during the study will be considered source record and will not be required to be reported, unless otherwise noted. Any untoward physical examination findings that are identified during the active collection period and meet the definition of an AE or SAE ([Appendix 3](#)) must be reported according to the processes in [Sections 8.4.1 to 8.4.3](#).

8.3.2. Chest Radiography

Chest X-ray (posterior-anterior and lateral views are recommended, however local guidelines should be followed) or other appropriate diagnostic image (ie, CT or MRI) should be taken at Screening or within 3 months prior to Screening and read by a qualified radiologist or pulmonologist and must show no evidence of abnormalities including but not limited to current, active TB or previous inactive TB, general infections, heart failure or malignancy. Documentation of the official reading must be located and available in the source document.

8.3.3. Vital Signs

8.3.3.1. Blood Pressure and Pulse Rate

Supine BP will be measured with the participant's arm supported at the level of the heart, and recorded to the nearest mm Hg after approximately 5 minutes of rest. The same arm (preferably the dominant arm) will be used throughout the study.

The same properly sized and calibrated BP cuff will be used to measure BP each time. The use of an automated device for measuring BP and pulse rate is acceptable; however, when done manually, pulse rate will be measured in the brachial/radial artery for at least 30 seconds. When the timing of these measurements coincides with a blood collection, BP and pulse rate should be obtained prior to the nominal time of the blood collection.

Additional collection times, or changes to collection times, of BP and pulse rate will be permitted, as necessary, to ensure appropriate collection of safety data.

Any untoward vital sign findings that are identified during the active collection period and meet the definition of an AE or SAE ([Appendix 3](#)) must be reported according to the processes in [Sections 8.4.1 to 8.4.3](#).

8.3.3.2. Temperature

Temperature (eg, ear temperature) will be measured according to local practice at time specified in the [SoA](#). No eating, drinking, or smoking is allowed for 15 minutes prior to the measurement.

8.3.4. Electrocardiograms

Standard 12-lead ECGs utilizing limb leads (with a 10-second rhythm strip) will be collected at times specified in the [SoA](#) section of this protocol using an ECG system that automatically calculates the HR and measures PR, QT, QTcF, and QRS intervals. All scheduled ECGs should be performed after the participant has rested quietly for at least 5 minutes in a supine position.

To ensure safety of the participants, a qualified individual at the investigator site will make comparisons to baseline measurements. Additional ECG monitoring will occur if a) a postdose QTcF interval is increased by ≥ 60 ms from the baseline **and** is >450 ms; or b) an absolute QT value is ≥ 500 ms for any scheduled ECG. If either of these conditions occurs, then 2 additional ECGs will be collected approximately 2 to 4 minutes apart to confirm the original measurement. If the QTcF values from these repeated ECGs remain above the threshold value, then a single ECG must be repeated at least hourly until QTc values from 2 successive ECGs fall below the threshold value that triggered the repeat measurement.

If a) a postdose QTcF interval remains ≥ 60 ms from the baseline **and** is >450 ms; or b) an absolute QT value is ≥ 500 ms for any scheduled ECG for greater than 4 hours (or sooner, at the discretion of the investigator); or c) QTcF value get progressively longer, the participant should undergo continuous ECG monitoring. A cardiologist should be consulted if QTcF values do not return to less than the criteria listed above after 8 hours of monitoring (or sooner, at the discretion of the investigator).

In some cases, it may be appropriate to repeat abnormal ECGs to rule out improper lead placement as contributing to the ECG abnormality. It is important that leads be placed in the same positions each time in order to achieve precise ECG recordings. If a machine-read QTc value is prolonged, as defined above, repeat measurements may not be necessary if a qualified medical provider's interpretation determines that the QTcF values are in the acceptable range.

ECG values of potential clinical concern are listed in [Appendix 7](#).

8.3.5. Clinical Safety Laboratory Assessments

See [Appendix 2](#) for the list of clinical safety laboratory tests to be performed and the [SoA](#) for the timing and frequency. All protocol-required laboratory assessments, as defined in [Appendix 2](#), must be conducted in accordance with the laboratory manual and the [SoA](#). Unscheduled clinical laboratory measurements may be obtained at any time during the study to assess any perceived safety issues.

The investigator must review the laboratory report, document this review, and record any clinically significant changes occurring during the study in the AE section of the CRF. Clinically significant abnormal laboratory test findings are those that are not associated with the underlying disease, unless judged by the investigator to be more severe than expected for the participant's condition.

All laboratory tests with values considered clinically significant and abnormal during participation in the study or within 48 hours after the last dose of study intervention should be repeated until the values return to normal or baseline or are no longer considered clinically significant by the investigator or study medical monitor.

If such values do not return to normal/baseline within a period of time judged reasonable by the investigator, the etiology should be identified and the sponsor notified.

See [Appendix 5](#) for suggested actions and follow-up assessments in the event of potential DILI.

See [Appendix 6](#) for instructions for laboratory testing to monitor kidney function and reporting laboratory test abnormalities.

Participants may undergo random urine drug testing at the discretion of the investigator. Drug testing conducted prior to dosing must be negative for participants to receive study intervention.

8.3.6. COVID-19 Specific Assessments

Testing for active COVID-19 infection, including testing methodology and frequency will follow CRU's practice at scheduled times listed in the [SoA](#). These tests may not be needed if the pandemic is over.

8.3.7. Pregnancy Testing

A urine or serum pregnancy test is required at screening. Following screening, pregnancy tests may be urine or serum tests, and must have a sensitivity of at least 25 mIU/mL. Pregnancy tests will be performed in WOCBP at the times listed in the [SoA](#). Following a negative pregnancy test result at screening, appropriate contraception must be commenced and a second negative pregnancy test result will be required at the baseline visit prior to starting the study intervention. Pregnancy tests will also be done whenever 1 menstrual cycle is missed during the active treatment period (or when potential pregnancy is otherwise suspected) and at the end of the study. Pregnancy tests may also be repeated if requested by IRBs/ECs or if required by local regulations. If a urine test cannot be confirmed as negative (eg, an ambiguous result), a serum pregnancy test is required. In such cases, the participant must be excluded if the serum pregnancy result is positive.

8.4. Adverse Events, Serious Adverse Events, and Other Safety Reporting

The definitions of an AE and an SAE can be found in [Appendix 3](#).

AEs may arise from symptoms or other complaints reported to the investigator by the participant (or, when appropriate, by a caregiver, surrogate, or the participant's legally authorized representative), or they may arise from clinical findings of the investigator or other healthcare providers (clinical signs, test results, etc).

The investigator and any qualified designees are responsible for detecting, documenting, and recording events that meet the definition of an AE or SAE and remain responsible to pursue and obtain adequate information both to determine the outcome and to assess whether the event meets the criteria for classification as an SAE or caused the participant to discontinue the study intervention (see [Section 7.1](#)).

During the active collection period as described in Section 8.4.1, each participant/legally authorized representative will be questioned about the occurrence of AEs in a nonleading manner.

In addition, the investigator may be requested by Pfizer Safety to obtain specific follow-up information in an expedited fashion.

8.4.1. Time Period and Frequency for Collecting AE and SAE Information

The time period for actively eliciting and collecting AEs and SAEs ("active collection period") for each participant begins from the time the participant provides informed consent, which is obtained before undergoing any study-related procedure and/or receiving study intervention), through and including a minimum of 28 calendar days, except as indicated below, after the last administration of the study intervention.

Follow-up by the investigator continues throughout the active collection period and until the AE or SAE or its sequelae resolve or stabilize at a level acceptable to the investigator.

When a clinically important AE remains ongoing at the end of the active collection period, follow-up by the investigator continues until the AE or SAE or its sequelae resolve or stabilize at a level acceptable to the investigator and Pfizer concurs with that assessment.

For participants who are screen failures, the active collection period ends when screen failure status is determined.

If the participant withdraws from the study and also withdraws consent for the collection of future information, the active collection period ends when consent is withdrawn.

If a participant permanently discontinues or temporarily discontinues study intervention because of an AE or SAE, the AE or SAE must be recorded on the CRF and the SAE reported using the CT SAE Report Form.

Investigators are not obligated to actively seek information on AEs or SAEs after the participant has concluded study participation. However, if the investigator learns of any SAE, including a death, at any time after a participant has conducted the study participation, and they consider the event to be reasonably related to the study intervention, the investigator must promptly report the SAE to Pfizer using the CT SAE Report Form.

8.4.1.1. Reporting SAEs to Pfizer Safety

All SAEs occurring in a participant during the active collection period as described in [Section 8.4.1](#) are reported to Pfizer Safety on the CT SAE Report Form immediately upon awareness and under no circumstance should this exceed 24 hours, as indicated in [Appendix 3](#). The investigator will submit any updated SAE data to the sponsor within 24 hours of its being available.

8.4.1.2. Recording Nonserious AEs and SAEs on the CRF

All nonserious AEs and SAEs occurring in a participant during the active collection period, which begins after obtaining informed consent as described in [Section 8.4.1](#), will be recorded on the AE section of the CRF.

The investigator is to record on the CRF all directly observed and all spontaneously reported AEs and SAEs reported by the participant.

As part of ongoing safety reviews conducted by the sponsor, any nonserious AE that is determined by the sponsor to be serious will be reported by the sponsor as an SAE. To assist in the determination of case seriousness, further information may be requested from the investigator to provide clarity and understanding of the event in the context of the clinical study.

Reporting of AEs and SAEs for participants who fail screening are subject to the CRF requirements as described in [Section 5.4](#).

All nonserious AEs leading to permanent discontinuation of study intervention and SAEs (or additional AEs as required by regulatory authorities) occurring in a participant during the active collection period which begins after obtaining informed consent as described in [Section 8.4.1](#), will be recorded on the AE section of the CRF.

The investigator is to record on the CRF all directly observed and all spontaneously reported AEs leading to permanent discontinuation of study intervention and SAEs reported by the participants that meet the above criteria.

As part of ongoing safety reviews conducted by the sponsor, any non-serious AE leading to permanent discontinuation of study intervention that is determined by the sponsor to be serious will be reported by the sponsor as an SAE. To assist in the determination of case seriousness, further information may be requested from the investigator to provide clarity and understanding of the event in the context of the clinical study.

If a participant begins a new therapy, the recording period for nonserious AEs leading to permanent discontinuation of study intervention ends at the time the new treatment is started; however, SAEs must continue to be recorded on the CRF during the above-indicated active collection period. A switch to a commercially available version of the study intervention is considered as a new therapy for the purposes of SAE reporting.

Reporting of AEs leading to permanent discontinuation of study intervention and SAEs for participants who fail screening are subject to the CRF requirements as described in [Section 5.4](#).

8.4.2. Method of Detecting AEs and SAEs

The method of recording, evaluating, and assessing causality of AEs and SAEs and the procedures for completing and transmitting SAE reports are provided in [Appendix 3](#).

Care will be taken not to introduce bias when detecting AEs and/or SAEs. Open-ended and nonleading verbal questioning of the participant is the preferred method to inquire about AE occurrences.

8.4.3. Follow-Up of AEs and SAEs

After the initial AE or SAE report, the investigator is required to proactively follow each participant at subsequent visits/contacts. For each event, the investigator must pursue and obtain adequate information until resolution, stabilization, the event is otherwise explained, or the participant is lost to follow-up (as defined in [Section 7.3](#)).

In general, follow-up information will include a description of the event in sufficient detail to allow for a complete medical assessment of the case and independent determination of possible causality. Any information relevant to the event, such as concomitant medications and illnesses, must be provided. In the case of a participant death, a summary of available autopsy findings must be submitted as soon as possible to Pfizer Safety.

Further information on follow-up procedures is provided in [Appendix 3](#).

8.4.4. Regulatory Reporting Requirements for SAEs

Prompt notification by the investigator to the sponsor of an SAE is essential so that legal obligations and ethical responsibilities toward the safety of participants and the safety of a study intervention under clinical investigation are met.

The sponsor has a legal responsibility to notify both the local regulatory authority and other regulatory agencies about the safety of a study intervention under clinical investigation. The sponsor will comply with country-specific regulatory requirements relating to safety reporting to the regulatory authority, IRBs/ECs, and investigators.

Investigator safety reports must be prepared for SUSARs according to local regulatory requirements and sponsor policy and forwarded to investigators as necessary.

An investigator who receives SUSARs or other specific safety information (eg, summary or listing of SAEs) from the sponsor will review and then file it along with the SRSD(s) for the study and will notify the IRB/EC, if appropriate according to local requirements.

8.4.5. Environmental Exposure, Exposure During Pregnancy or Breastfeeding, and Occupational Exposure

Environmental exposure, occurs when a person not enrolled in the study as a participant receives unplanned direct contact with or exposure to the study intervention. Such exposure may or may not lead to the occurrence of an AE or SAE. Persons at risk for environmental exposure include healthcare providers, family members, and others who may be exposed. An environmental exposure may include EDP, EDB, and occupational exposure.

Any such exposures to the study intervention under study are reportable to Pfizer Safety within 24 hours of investigator awareness.

8.4.5.1. Exposure During Pregnancy

An EDP occurs if:

- A female participant is found to be pregnant while receiving or after discontinuing study intervention.
- A male participant who is receiving or has discontinued study intervention inseminates a female partner until the follow-up visit (28-35 days after last dose of study intervention).
- A female nonparticipant is found to be pregnant while being exposed or having been exposed to study intervention because of environmental exposure. Below are examples of environmental EDP:
 - A female family member or healthcare provider reports that she is pregnant after having been exposed to the study intervention by ingestion, inhalation, or skin contact.
 - A male family member or healthcare provider who has been exposed to the study intervention by ingestion, inhalation, or skin contact then inseminates his female partner prior to or around the time of conception.

The investigator must report EDP to Pfizer Safety within 24 hours of the investigator's awareness, irrespective of whether an SAE has occurred. The initial information submitted should include the anticipated date of delivery (see below for information related to termination of pregnancy).

- If EDP occurs in a participant or participant's partner, the investigator must report this information to Pfizer Safety using the CT SAE Report Form and EDP Supplemental Form regardless of whether an SAE has occurred. Details of the

pregnancy will be collected after the start of study intervention and until the follow-up visit (28-35 days after last dose of study intervention) for the participant.

- If EDP occurs in the setting of environmental exposure, the investigator must report information to Pfizer Safety using the CT SAE Report Form and EDP Supplemental Form. Since the exposure information does not pertain to the participant enrolled in the study, the information is not recorded on a CRF; however, a copy of the completed report is maintained in the investigator site file.

Follow-up is conducted to obtain general information on the pregnancy and its outcome for all EDP reports with an unknown outcome. The investigator will follow the pregnancy until completion (or until pregnancy termination) and notify Pfizer Safety of the outcome as a follow-up to the initial report. In the case of a live birth, the structural integrity of the neonate can be assessed at the time of birth. In the event of a termination, the reason(s) for termination should be specified and, if clinically possible, the structural integrity of the terminated fetus should be assessed by gross visual inspection (unless pre-procedure test findings are conclusive for a congenital anomaly and the findings are reported).

Abnormal pregnancy outcomes are considered SAEs. If the outcome of the pregnancy meets the criteria for an SAE (ie, ectopic pregnancy, spontaneous abortion, intrauterine fetal demise, neonatal death, or congenital anomaly in a live-born baby, a terminated fetus, an intrauterine fetal demise, or a neonatal death), the investigator should follow the procedures for reporting SAEs. Additional information about pregnancy outcomes that are reported to Pfizer Safety as SAEs follows:

- Spontaneous abortion including miscarriage and missed abortion should be reported as an SAE;
- Neonatal deaths that occur within 1 month of birth should be reported, without regard to causality, as SAEs. In addition, infant deaths after 1 month should be reported as SAEs when the investigator assesses the infant death as related or possibly related to exposure to the study intervention.

Additional information regarding the EDP may be requested by the sponsor. Further follow-up of birth outcomes will be handled on a case-by-case basis (eg, follow-up on preterm infants to identify developmental delays). In the case of paternal exposure, the investigator will provide the participant with the Pregnant Partner Release of Information Form to deliver to his partner. The investigator must document in the source documents that the participant was given the Pregnant Partner Release of Information Form to provide to his partner.

8.4.5.2. Exposure During Breastfeeding

An EDB occurs if:

- A female participant is found to be breastfeeding while receiving or after discontinuing study intervention.

- A female nonparticipant is found to be breastfeeding while being exposed or having been exposed to study intervention (ie, environmental exposure). An example of environmental EDB is a female family member or healthcare provider who reports that she is breastfeeding after having been exposed to the study intervention by ingestion, inhalation, or skin contact.

The investigator must report EDB to Pfizer Safety within 24 hours of the investigator's awareness, irrespective of whether an SAE has occurred. The information must be reported using the CT SAE Report Form. When EDB occurs in the setting of environmental exposure, the exposure information does not pertain to the participant enrolled in the study, so the information is not recorded on a CRF. However, a copy of the completed report is maintained in the investigator site file.

An EDB report is not created when a Pfizer drug specifically approved for use in breastfeeding women (eg, vitamins) is administered in accordance with authorized use. However, if the infant experiences an SAE associated with such a drug, the SAE is reported together with the EDB.

8.4.5.3. Occupational Exposure

The investigator must report any instance of occupational exposure to Pfizer Safety within 24 hours of the investigator's awareness using the CT SAE Report Form regardless of whether there is an associated SAE. Since the information about the occupational exposure does not pertain to a participant enrolled in the study, the information is not recorded on a CRF; however, a copy of the completed report is maintained in the investigator site file.

8.4.6. Cardiovascular and Death Events

Not applicable.

8.4.7. Disease-Related Events and/or Disease-Related Outcomes Not Qualifying as AEs or SAEs

Not applicable.

8.4.8. Adverse Events of Special Interest

Not applicable.

8.4.8.1. Lack of Efficacy

This section is not applicable because efficacy is not expected in the study population.

8.4.9. Medical Device Deficiencies

Not applicable.

8.4.10. Medication Errors

Medication errors may result from the administration or consumption of the study intervention by the wrong participant, or at the wrong time, or at the wrong dosage strength.

Medication errors are recorded and reported as follows:

Recorded on the Medication Error Page of the CRF	Recorded on the Adverse Event Page of the CRF	Reported on the CT SAE Report Form to Pfizer Safety Within 24 Hours of Awareness
All (regardless of whether associated with an AE)	Any AE or SAE associated with the medication error	Only if associated with an SAE

Medication errors include:

- Medication errors involving participant exposure to the study intervention;
- Potential medication errors or uses outside of what is foreseen in the protocol that do or do not involve the study participant.

Other examples include, but are not limited to:

- The administration of expired study intervention;
- The administration of an incorrect study intervention;
- The administration of an incorrect dosage;
- The administration of study intervention that has undergone temperature excursion from the specified storage range, unless it is determined by the sponsor that the study intervention under question is acceptable for use.

Whether or not the medication error is accompanied by an AE, as determined by the investigator, such medication errors occurring to a study participant are recorded on the medication error page of the CRF, which is a specific version of the AE page and, if applicable, any associated serious and nonserious AE(s), are recorded on the AE page of the CRF.

In the event of a medication dosing error, the sponsor should be notified within 24 hours. Medication errors should be reported to Pfizer Safety within 24 hours on a CT SAE Report Form **only when associated with an SAE**.

8.5. Pharmacokinetics

Whole Blood samples (approximately 3 mL) to provide approximately of 1 mL plasma, will be collected for measurement of plasma concentrations of sisunatovir as specified in the [SoA](#). A whole blood aliquot (approximately 200 µL) from the PK blood draw only will be collected for in vivo blood/plasma ratio assessment on Day 4 and time points as specified in the [SoA](#). Exploratory micro-sampling PK samples for the measurement of sisunatovir concentrations will be collected, in order to evaluate micro-sampling approach using the

Tasso[®] device. Total blood volume for micro-sampling PK will not exceed 0.1 mL at each time point specified in the [SoA](#). Instructions for the collection and handling of biological samples will be provided in the laboratory manual or by the sponsor. The actual date and time (24-hour clock time) of each sample will be recorded.

The actual times may change, but the number of samples will remain the same. All efforts will be made to obtain the samples at the exact nominal time relative to dosing. Collection of samples up to and including 10 hours after dose administration that are obtained within 10% of the nominal time relative to dosing (eg, within 6 minutes of a 60-minute sample) will not be captured as a protocol deviation, as long as the exact time of the collection is noted on the source document and the CRF. Collection of samples more than 10 hours after dose administration that are obtained ≤ 1 hour away from the nominal time relative to dosing will not be captured as a protocol deviation, as long as the exact time of the collection is noted on the source document and the CRF. This protocol deviation window does not apply to samples to be collected more than 10 hours after dose administration at outpatient/follow-up visits with visit windows.

Samples will be used to evaluate the PK of sisunatovir. Samples collected for analyses of sisunatovir plasma concentration may also be used to evaluate safety or efficacy aspects related to concerns arising during or after the study, for metabolite identification and/or evaluation of the bioanalytical method. The data may be used for internal exploratory purposes. The exploratory results may not be reported in the CSR.

Genetic analyses will not be performed on these PK samples. Participant confidentiality will be maintained.

Samples collected for measurement of plasma concentrations of sisunatovir will be analyzed using a validated analytical method in compliance with applicable SOPs.

The PK samples must be processed and shipped as indicated in the instructions provided to the investigator site to maintain sample integrity. Any deviations from the PK sample handling procedure (eg, sample collection and processing steps, interim storage or shipping conditions), including any actions taken, must be documented and reported to the sponsor. On a case-by-case basis, the sponsor may make a determination as to whether sample integrity has been compromised.

Any changes in the timing or addition of time points for any planned study assessments must be documented and approved by the relevant study team member and then archived in the sponsor and site study files, but will not constitute a protocol amendment. The IRB/EC will be informed of any safety issues that require alteration of the safety monitoring scheme or amendment of the ICD.

8.6. Genetics

8.6.1. Specified Genetics

Specified genetic analyses are not evaluated in this study.

8.6.2. Retained Research Samples for Genetics

Retained research samples for genetics will not be collected for this study.

8.7. Biomarkers

Biomarkers are not evaluated in this study.

8.8. Immunogenicity Assessments

Immunogenicity assessments are not included in this study.

8.9. Health Economics

Health economics/medical resource utilization and health economics parameters are not evaluated in this study.

9. STATISTICAL CONSIDERATIONS

Detailed methodology for summary and statistical analyses of the data collected in this study is outlined here and further detailed in the SAP, which will be maintained by the sponsor. The SAP may modify what is outlined in the protocol where appropriate; however, any major modifications of the primary endpoint definitions or their analyses will also be reflected in a protocol amendment.

9.1. Statistical Hypotheses

There is no statistical hypothesis for this study.

9.2. Analysis Sets

For purposes of analysis, the following analysis sets are defined:

Participant Analysis Set	Description
Enrolled	“Enrolled” means a participant’s, or their legally authorized representative’s, agreement to participate in a clinical study following completion of the informed consent process and assignment to study intervention.
PK Concentration Analysis Set	The PK concentration analysis set is defined as all participants who take at least 1 dose of study intervention and in whom at least 1 plasma concentration value is reported.
PK Parameter Analysis Set	The PK parameter analysis set is defined as all participants who take at least 1 dose of study intervention and have at least 1 of the PK parameters of interest calculated.
Safety analysis set	All participants who take at least 1 dose of study intervention.

9.3. Statistical Analyses

The SAP will be developed and finalized before database lock and will describe the analyses and procedures for accounting for missing, unused, and spurious data. This section is a summary of the planned statistical analyses of the primary and secondary endpoints.

9.3.1. Pharmacokinetic Analyses

9.3.1.1. Statistical Methods for Pharmacokinetic Data

The plasma PK parameters of sisunatovir will be listed and descriptively summarized by study day. For AUC_{last} , AUC_{inf} , AUC_{tau} , and C_{max} , box and whisker plots for individual participant parameters overlaid with geometric means will be plotted. The PK parameter analysis set will be used.

The plasma concentrations of sisunatovir will be listed and descriptively summarized by study day and nominal PK sampling times. Individual participant and summary profiles (mean and median plots) of the plasma concentration-time data will be plotted using actual and nominal sampling times, respectively. The PK concentration analysis set will be used.

Concentrations of sisunatovir obtained via microsampling from paired samples compared to plasma sampling will be summarized by sampling time on Day 4 and be listed if possible.

Additional specifications about the tables, listings, and figures will be outlined in the SAP.

9.3.1.2. Derivation of Pharmacokinetic Parameters Prior to Analysis

The plasma PK parameters for sisunatovir, following single dose in a fasted state and repeated twice daily doses in a fed state, will be derived from the plasma concentration-time profiles as detailed in Table 4, as data permit. Actual PK sampling times will be used in the derivation of PK parameters. In the case that actual PK sampling times are not available, nominal PK sampling times will be used in the derivation of PK parameters.

Table 4. Plasma PK Parameters for Sisunatovir

Parameter	Study Day	Definition	Method of Determination
C_{max}	1, 4, 8	Maximum observed concentration	Observed directly from data
T_{max}	1, 4, 8	Time to reach maximum concentration	Observed directly from data
AUC_{inf}^a	1, 8	Area under the concentration-time curve from time 0 to infinity	$AUC_{last} + (C_{last}/k_{el})$, where C_{last} is the predicted plasma concentration at the last quantifiable time point estimated from the log-linear regression analysis

Table 4. Plasma PK Parameters for Sisunatovir

Parameter	Study Day	Definition	Method of Determination
AUC _{last}	1, 8	Area under the concentration-time curve from time 0 to the time of last quantifiable concentration	Linear/Log trapezoidal method
AUC _{tau}	1, 4, 8	Area under the concentration time curve from time 0 to the time of the end of the dosing interval (tau), where tau=12 hours	Linear/Log trapezoidal method.
t _{1/2} ^a	1, 8	Terminal half-life	Log _e (2)/k _{el} , where k _{el} is the terminal phase rate constant calculated by a linear regression of the log-linear concentration-time curve
MRT ^a	1, 8	Mean residence time	Day 1: MRT = AUMC _{inf} /AUC _{inf} Day 8: [AUMC _{tau} + tau(AUC _{inf} - AUC _{tau})]/AUC _{tau} where AUMC _{inf} is the area under the first moment curve from zero time to infinity AUMC _{tau} is area under the first moment curve over the dosing interval tau.
V _z /F ^a	1	Apparent volume of distribution	Dose/(AUC _{inf} × k _{el})
CL/F ^a	1, 8	Apparent oral clearance	Dose/AUC _{inf}
R _{ac} ^a	8	Accumulation ratio on AUC _{tau}	AUC ₁₂ (Day 8) /AUC ₁₂ (Day 4)
R _{ac,Cmax} ^a	8	Accumulation ratio on C _{max}	C _{max} (Day 8) /C _{max} (Day 4)
C _{trough}	6, 7, 8	Lowest concentration observed during the dosing interval	Observed directly from data
C _{av}	8	Average concentration at steady state	AUC ₁₂ (Day 8) /12 hours.
V _z /F ^a	8	Apparent volume of distribution at steady state	V _z /F = Dose/(AUC _{tau} × k _{el})
PTR	8	Peak-trough ratio	C _{max} /C _{trough}

a. If data permit.

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9.3.2. Safety Analyses

All safety analyses will be performed on the safety analysis set.

AEs, ECGs, vital signs, and safety laboratory data will be reviewed and summarized on an ongoing basis during the study to evaluate the safety of participants. Any clinical laboratory, ECG, vital signs abnormalities of potential clinical concern will be described. Safety data will be presented in tabular and/or graphical format and summarized descriptively, where appropriate.

Medical history and physical examination collected during the course of the study, will be considered source data and will not be required to be reported, unless otherwise noted. However, any untoward findings identified on physical examinations conducted during the active collection period will be captured as AEs, if those findings meet the definition of an AE. Data collected at screening that are used for inclusion/exclusion criteria, such as laboratory data, ECGs, and vital signs, will be considered source data, and will not be required to be reported, unless otherwise noted. Demographic data collected at screening will be reported.

9.3.2.1. Electrocardiogram Analyses

Baseline and changes from baseline for the ECG parameters (ie, HR, QT, QTcF interval, PR interval, and QRS interval) will be summarized by study day.

The number (%) of participants with maximum postdose QTcF values and maximum increases from baseline in the following categories will be tabulated:

Safety QTcF Assessment

Degree of Prolongation	Mild (msec)	Moderate (msec)	Severe (msec)
Absolute value	>450-480	>480-500	>500
Increase from baseline		30-60	>60

9.4. Interim Analyses

No interim analysis will be conducted for this study.

9.5. Sample Size Determination

There is no statistical hypothesis for this study, therefore, the study sample size is not based on statistical decision rule. A sufficient number of participants will be screened to achieve approximately 12 Chinese participants being available for deriving PK parameters. This sample size is based on the China regulatory requirement for a China PK study and to support the registration in China. Participants who fail to complete the study may be replaced at the discretion of the sponsor and investigator.

10. SUPPORTING DOCUMENTATION AND OPERATIONAL CONSIDERATIONS

10.1. Appendix 1: Regulatory, Ethical, and Study Oversight Considerations

10.1.1. Regulatory and Ethical Considerations

This study will be conducted in accordance with the protocol and with the following:

- Consensus ethical principles derived from international guidelines, including the Declaration of Helsinki and CIOMS International Ethical Guidelines;
- Applicable ICH GCP guidelines;
- Applicable laws and regulations, including applicable privacy laws.

The protocol, protocol amendments, ICD, SRSD(s), and other relevant documents (eg, advertisements) must be reviewed and approved by the sponsor, submitted to an IRB/EC by the investigator, and reviewed and approved by the IRB/EC before the study is initiated.

Any amendments to the protocol will require IRB/EC approval before implementation of changes made to the study design, except for changes necessary to eliminate an immediate hazard to study participants.

Protocols and any substantial amendments to the protocol will require health authority approval prior to initiation except for changes necessary to eliminate an immediate hazard to study participants.

The investigator will be responsible for the following:

- Providing written summaries of the status of the study to the IRB/EC annually or more frequently in accordance with the requirements, policies, and procedures established by the IRB/EC;
- Notifying the IRB/EC of SAEs or other significant safety findings as required by IRB/EC procedures;
- Providing oversight of the conduct of the study at the site and adherence to requirements of 21 CFR, ICH GCP guidelines, the IRB/EC, European regulation 536/2014 for clinical studies, European Medical Device Regulation 2017/745 for clinical device research, and all other applicable local regulations.

10.1.1.1. Reporting of Safety Issues and Serious Breaches of the Protocol or ICH GCP

In the event of any prohibition or restriction imposed (ie, clinical hold) by an applicable regulatory authority in any area of the world, or if the investigator is aware of any new information that might influence the evaluation of the benefits and risks of the study intervention, Pfizer should be informed immediately.

In addition, the investigator will inform Pfizer immediately of any urgent safety measures taken by the investigator to protect the study participants against any immediate hazard, and of any serious breaches of this protocol or of the ICH GCP guidelines that the investigator becomes aware of.

10.1.2. Financial Disclosure

Investigators and sub investigators will provide the sponsor with sufficient, accurate financial information as requested to allow the sponsor to submit complete and accurate financial certification or disclosure statements to the appropriate regulatory authorities. Investigators are responsible for providing information on financial interests during the course of the study and for 1 year after completion of the study.

10.1.3. Informed Consent Process

The investigator or the investigator's representative will explain the nature of the study, including the risks and benefits, to the participant/legally authorized representatives and answer all questions regarding the study. The participant should be given sufficient time and opportunity to ask questions and to decide whether or not to participate in the trial.

Participants must be informed that their participation is voluntary. Participants will be required to sign a statement of informed consent that meets the requirements of 21 CFR 50, local regulations, ICH guidelines, privacy and data protection requirements, where applicable, and the IRB/EC or study center.

The investigator must ensure that each participant is fully informed about the nature and objectives of the study, the sharing of data related to the study, and possible risks associated with participation, including the risks associated with the processing of the participant's personal data.

The participant must be informed that their personal study-related data will be used by the sponsor in accordance with local data protection law. The level of disclosure must also be explained to the participant.

The participant must be informed that their medical records may be examined by Clinical Quality Assurance auditors or other authorized personnel appointed by the sponsor, by appropriate IRB/EC members, and by inspectors from regulatory authorities.

The investigator further must ensure that each study participant is fully informed about their right to access and correct their personal data and to withdraw consent for the processing of their personal data.

The medical record must include a statement that written informed consent was obtained before the participant was enrolled in the study and the date on which the written consent was obtained. The authorized person obtaining the informed consent must also sign the ICD.

Participants must be reconsented to the most current version of the IRB/EC-approved ICD(s) during their participation in the study as required per local regulations.

A copy of the ICD(s) must be provided to the participant.

A participant who is rescreened is not required to sign another ICD if the rescreening occurs within 28 days from the previous ICD signature date.

10.1.4. Data Protection

All parties will comply with all applicable laws, including laws regarding the implementation of organizational and technical measures to ensure protection of participant data.

Participants' personal data will be stored at the study site in encrypted electronic and/or paper form and will be password protected or secured in a locked room to ensure that only authorized study staff have access. The study site will implement appropriate technical and organizational measures to ensure that the personal data can be recovered in the event of disaster. In the event of a potential personal data breach, the study site will be responsible for determining whether a personal data breach has in fact occurred and, if so, providing breach notifications as required by law.

To protect the rights and freedoms of participants with regard to the processing of personal data, participants will be assigned a single, participant-specific numerical code. Any participant records or data sets that are transferred to the sponsor will contain the numerical code; participant names will not be transferred. All other identifiable data transferred to the sponsor will be identified by this single, participant-specific code. The study site will maintain a confidential list of participants who participated in the study, linking each participant's numerical code to their actual identity and medical record ID. In case of data transfer, the sponsor will protect the confidentiality of participants' personal data consistent with the clinical study agreement and applicable privacy laws.

Information technology systems used to collect, process, and store study-related data are secured by technical and organizational security measures designed to protect such data against accidental or unlawful loss, alteration, or unauthorized disclosure or access.

The sponsor maintains SOPs on how to respond in the event of unauthorized access, use, or disclosure of sponsor information or systems.

10.1.5. Committees Structure

10.1.5.1. Data Monitoring Committee

This study will not use an E-DMC.

10.1.6. Dissemination of Clinical Study Data

Pfizer fulfills its commitment to publicly disclose clinical study results through posting the results of studies on www.clinicaltrials.gov (ClinicalTrials.gov), the EudraCT/CTIS, and/or www.pfizer.com, and other public registries and websites in accordance with applicable local laws/regulations. In addition, Pfizer reports study results outside of the requirements of local laws/regulations pursuant to its SOPs.

In all cases, study results are reported by Pfizer in an objective, accurate, balanced, and complete manner and are reported regardless of the outcome of the study or the country in which the study was conducted.

www.clinicaltrials.gov

Pfizer posts clinical trial results on www.clinicaltrials.gov for Pfizer-sponsored interventional studies (conducted in patients) that evaluate the safety and/or efficacy of a product, regardless of the geographical location in which the study is conducted. These results are submitted for posting in accordance with the format and timelines set forth by US law.

EudraCT/CTIS

Pfizer posts clinical trial results on EudraCT/CTIS for Pfizer-sponsored interventional studies in accordance with the format and timelines set forth by EU requirements.

www.pfizer.com

Pfizer posts CSR synopses and plain-language study results summaries on www.pfizer.com for Pfizer-sponsored interventional studies at the same time the corresponding study results are posted to www.clinicaltrials.gov. CSR synopses will have personally identifiable information anonymized.

Documents within marketing applications

Pfizer complies with applicable local laws/regulations to publish clinical documents included in marketing applications. Clinical documents include summary documents and CSRs including the protocol and protocol amendments, sample CRFs, and SAPs. Clinical documents will have personally identifiable information anonymized.

Data sharing

Pfizer provides researchers secure access to participant-level data or full CSRs for the purposes of “bona-fide scientific research” that contributes to the scientific understanding of the disease, target, or compound class. Pfizer will make data from these trials available 18 months after study completion. Participant-level data will be anonymized in accordance with applicable privacy laws and regulations. CSRs will have personally identifiable information anonymized.

Data requests are considered from qualified researchers with the appropriate competencies to perform the proposed analyses. Research teams must include a biostatistician. Data will not be provided to applicants with significant conflicts of interest, including individuals requesting access for commercial/competitive or legal purposes.

10.1.7. Data Quality Assurance

All participant data relating to the study will be recorded on printed or electronic CRF unless transmitted to the sponsor or designee electronically (eg, laboratory data). The investigator is

responsible for verifying that data entries are accurate and correct by physically or electronically signing the CRF.

Guidance on completion of CRFs will be provided in the CRF Completion Requirements document.

The investigator must ensure that the CRFs are securely stored at the study site in encrypted electronic and/or paper form and are password-protected or secured in a locked room to prevent access by unauthorized third parties.

The investigator must permit study-related monitoring, audits, IRB/EC review, and regulatory agency inspections and provide direct access to source records and documents. This verification may also occur after study completion. It is important that the investigator(s) and their relevant personnel are available during the monitoring visits and possible audits or inspections and that sufficient time is devoted to the process.

Monitoring details describing strategy, including definition of study-critical data items and processes (eg, risk-based initiatives in operations and quality, such as risk management and mitigation strategies and analytical risk-based monitoring), methods, responsibilities, and requirements, including handling of noncompliance issues and monitoring techniques (central, virtual, or on-site monitoring), are provided in the data management plan and monitoring plan maintained and utilized by the sponsor or designee.

The sponsor or designee is responsible for the data management of this study, including quality checking of the data.

Records and documents, including signed ICDs, pertaining to the conduct of this study must be retained by the investigator for 15 years after study completion unless local regulations or institutional policies require a longer retention period. No records may be destroyed during the retention period without the written approval of the sponsor. No records may be transferred to another location or party without written notification to the sponsor. The investigator must ensure that the records continue to be stored securely for as long as they are maintained.

When participant data are to be deleted, the investigator will ensure that all copies of such data are promptly and irrevocably deleted from all systems.

The investigator(s) will notify the sponsor or its agents immediately of any regulatory inspection notification in relation to the study. Furthermore, the investigator will cooperate with the sponsor or its agents to prepare the investigator site for the inspection and will allow the sponsor or its agent, whenever feasible, to be present during the inspection. The investigator site and investigator will promptly resolve any discrepancies that are identified between the study data and the participant's medical records. The investigator will promptly provide copies of the inspection findings to the sponsor or its agent. Before response submission to the regulatory authorities, the investigator will provide the sponsor or its agents with an opportunity to review and comment on responses to any such findings.

10.1.8. Source Documents

Source documents provide evidence for the existence of the participant and substantiate the integrity of the data collected. Source documents are filed at the investigator site.

Data reported on the CRF or entered in the eCRF that are from source documents must be consistent with the source documents or the discrepancies must be explained. The investigator may need to request previous medical records or transfer records, depending on the study. Also, current medical records must be available.

In this study, the CRF will serve as the source document. A document must be available at the investigative site that identifies those data that will be recorded on the CRF and for which the CRF will be the source document.

Definition of what constitutes a source document and its origin can be found in the Source Document Locator, which is maintained by the sponsor.

Description of the use of the computerized system is documented in the Data Management Plan, which is maintained by the sponsor.

The investigator must maintain accurate documentation (source record) that supports the information entered in the CRF.

10.1.9. Use of Medical Records

There may be instances when copies of medical records for certain cases are requested by Pfizer Safety, where ethically and scientifically justified and permitted by local regulations, to ensure participant safety.

Due to the potential for a participant to be re-identified from their medical records, the following actions must be taken when medical records are sent to the sponsor or sponsor designee:

- The investigator or site staff must redact personal information from the medical record. The personal information includes, but is not limited to, the following: participant names or initials, participant dates (eg, birth date, date of hospital admission/discharge, date of death), participant identification numbers (eg, Social Security number, health insurance number, medical record number, hospital/institution identifier), participant location information (eg, street address, city, country, postal code, IP address), participant contact information (eg, telephone/fax number, email address).
- Each medical record must be transmitted to the sponsor or sponsor designee using systems with technical and organizational security measures to ensure the protection of personal data (eg, Florence is the preferred system if available).

There may be unplanned situations where the sponsor may request medical records (eg, sharing medical records so that the sponsor can provide study-related advice to the

investigator). The medical records should be submitted according to the procedure described above.

10.1.10. Study and Site Start and Closure

The study start date is the date of the first participant's first visit.

The sponsor designee reserves the right to close the study site or terminate the study at any time for any reason at the sole discretion of the sponsor, including (but not limited to) regulatory authority decision, change in opinion of the IRB/EC, or change in benefit-risk assessment. Study sites will be closed upon study completion. A study site is considered closed when all required documents and study supplies have been collected and a study-site closure visit has been performed.

The investigator may initiate study-site closure at any time upon notification to the sponsor or CRO if requested to do so by the responsible IRB/EC or if such termination is required to protect the health of study participants.

Reasons for the early closure of a study site by the sponsor may include but are not limited to:

- Failure of the investigator to comply with the protocol, the requirements of the IRB/EC or local health authorities, the sponsor's procedures, or the ICH GCP guidelines;
- Inadequate recruitment of participants by the investigator;
- Discontinuation of further study intervention development.

If the study is prematurely terminated or suspended, the sponsor shall promptly inform the investigators, the ECs/IRBs, the regulatory authorities, and any CRO(s) used in the study of the reason for termination or suspension, as specified by the applicable regulatory requirements. The investigator shall promptly inform the participant and should assure appropriate participant therapy and/or follow-up.

Study termination is also provided for in the clinical study agreement. If there is any conflict between the contract and this protocol, the contract will control as to termination rights.

10.1.11. Publication Policy

For multicenter trials, the primary publication will be a joint publication developed by the investigator and Pfizer reporting the primary endpoint(s) of the study covering all study sites. The investigator agrees to refer to the primary publication in any subsequent publications. Pfizer will not provide any financial compensation for the investigator's participation in the preparation of the primary congress abstract, poster, presentation, or primary manuscript for the study.

Investigators are free to publish individual center results that they deem to be clinically meaningful after publication of the overall results of the study or 12 months after primary completion date or study completion at all sites, whichever occurs first, subject to the other requirements described in this section.

The investigator will provide Pfizer an opportunity to review any proposed publication or any other type of disclosure of the study results (collectively, “publication”) before it is submitted or otherwise disclosed and will submit all publications to Pfizer 30 days before submission. If any patent action is required to protect intellectual property rights, the investigator agrees to delay the disclosure for a period not to exceed an additional 60 days upon request from Pfizer. This allows Pfizer to protect proprietary information and to provide comments, and the investigator will, on request, remove any previously undisclosed confidential information before disclosure, except for any study-intervention or Pfizer-related information necessary for the appropriate scientific presentation or understanding of the study results. For joint publications, should there be disagreement regarding interpretation and/or presentation of specific analysis results, resolution of, and responsibility for, such disagreements will be the collective responsibility of all authors of the publication.

For all publications relating to the study, the investigator and Pfizer will comply with recognized ethical standards concerning publications and authorship, including those established by the International Committee of Medical Journal Editors. The investigator will disclose any relationship with Pfizer and any relevant potential conflicts of interest, including any financial or personal relationship with Pfizer, in any publications. All authors will have access to the relevant statistical tables, figures, and reports (in their original format) required to develop the publication.

10.1.12. Sponsor’s Medically Qualified Individual

The contact information for the sponsor’s MQI for the study is documented in the study contact list located in the supporting study documentation.

To facilitate access to their investigator and the sponsor’s MQI for study-related medical questions or problems from non-study healthcare professionals, participants are provided with an ECC at the time of informed consent. The ECC contains, at a minimum, (a) protocol and study intervention identifiers, (b) participant’s study identification number, (c) site emergency phone number active 24 hours/day, 7 days per week, and (d) Pfizer Call Center number.

The ECC is intended to augment, not replace, the established communication pathways between the participant and their investigator and site staff, and between the investigator and sponsor study team. The ECC is only to be used by healthcare professionals not involved in the research study, as a means of reaching the investigator or site staff related to the care of a participant. The Pfizer Call Center number is to be used when the investigator and site staff are unavailable. The Pfizer Call Center number is not for use by the participant directly; if a participant calls that number directly, they will be directed back to the investigator site.

10.2. Appendix 2: Clinical Laboratory Tests

The following safety laboratory tests will be performed at times defined in the [SoA](#) section of this protocol. Additional laboratory results may be reported on these samples as a result of the method of analysis or the type of analyzer used by the clinical laboratory, or as derived from calculated values; for example: calculation of estimated kidney function (ie, 2021 CKD-EPI eGFR). These additional tests would not require additional collection of blood. Unscheduled clinical laboratory measurements may be obtained at any time during the study to assess any perceived safety issues.

Table 5. Protocol-Required Laboratory Assessments

Hematology	Chemistry	Urinalysis	Other
Hemoglobin	BUN (Urea)	<u>Local dipstick:</u>	<u>At screening:</u>
Hematocrit	Creatinine	pH	• FSH ^d
RBC count	Cystatin C ^a	Glucose (qual)	• Alcohol breath test
MCV	eGFR ^b	Protein (qual)	• HIV, HBsAg, HBcAb, HBsAb, HCVAb
MCH	Glucose (fasting)	Blood (qual)	• Serology reaction of syphilis test
MCHC	Calcium	Ketones	• HBV-DNA
Platelet count	Sodium	Nitrites	• Pregnancy test (β-hCG) ^a
WBC count	Potassium	Leukocyte esterase (leukocyte)	<u>Screening and as indicated</u>
Total neutrophils (Abs)	Chloride	Urobilinogen	• Urine albumin-to-creatinine-ratio (UACR)
Eosinophils (Abs)	Total CO ₂ (bicarbonate)	Urine bilirubin	• Urine drug screening ^c
Monocytes (Abs)	AST, ALT		• Urine pregnancy test ^f
Basophils (Abs)	GGT	<u>Laboratory:</u>	• COVID-19 test
Lymphocytes (Abs)	Total bilirubin	Microscopy and culture ^c	
	Alkaline phosphatase		
	Uric acid		
	Albumin		
	Total protein		

- Cystatin C (Scys): Screening or Baseline Scys is recommended to help differentiate post-baseline DIKI from DICI. Post-baseline, Scys is measured if and only if serum creatinine increase post-baseline is observed (see [Section 7.1.1](#)).
- Screening and Baseline eGFR is measured with Screat-based formula. Age-specific kidney function calculation (see [Section 10.6.2](#)) is recommended to assess presence or absence of post-baseline change in kidney function.
- Only if UTI is suspected and urine dipstick is positive for nitrites or leukocyte esterase or both.
- For confirmation of postmenopausal status only in females <60 years old and not using hormonal or HRT only.
- Local urine testing will be standard for the protocol unless serum testing is required by local regulation or IRB/EC. See [SoA](#) for collection times.
- The minimum requirement for drug screening includes cocaine, THC, opiates/opioids, benzodiazepines, and amphetamines (others are site- and study-specific). See [SoA](#) for collection times.

The investigator must review the laboratory report, document this review, and record any clinically relevant changes occurring during the study in the AE section of the CRF.

10.3. Appendix 3: Adverse Events: Definitions and Procedures for Recording, Evaluating, Follow-Up, and Reporting

10.3.1. Definition of AE

AE Definition
<ul style="list-style-type: none">• An AE is any untoward medical occurrence in a patient or clinical study participant, temporally associated with the use of study intervention, whether or not considered related to the study intervention.• Note: An AE can therefore be any unfavorable and unintended sign (including an abnormal laboratory finding), symptom, or disease (new or exacerbated) temporally associated with the use of study intervention.

Events <u>Meeting</u> the AE Definition
<ul style="list-style-type: none">• Any abnormal laboratory test results (hematology, clinical chemistry, or urinalysis) or other safety assessments (eg, ECG, radiological scans, vital sign measurements), including those that worsen from baseline, considered clinically significant in the medical and scientific judgment of the investigator. Any abnormal test results that meet any of the conditions below must be recorded as an AE:<ul style="list-style-type: none">• Is associated with accompanying symptoms;• Requires additional diagnostic testing or medical/surgical intervention;• Leads to a change in study dosing (outside of any protocol-specified dose adjustments) or discontinuation from the study, significant additional concomitant drug treatment, or other therapy.• Exacerbation of a chronic or intermittent preexisting condition, including an increase in either frequency and/or intensity of the condition.• New condition detected or diagnosed after study intervention administration, even though it may have been present before the start of the study.• Signs, symptoms, or the clinical sequelae of a suspected drug-drug interaction.• Signs, symptoms, or the clinical sequelae of a suspected overdose of either study intervention or a concomitant medication. Overdose per se will not be reported as an AE or SAE unless it is an intentional overdose taken with possible suicidal/self-harming intent. Such overdoses should be reported regardless of sequelae.

Events <u>NOT</u> Meeting the AE Definition
<ul style="list-style-type: none"> Any clinically significant abnormal laboratory findings or other abnormal safety assessments that are associated with the underlying disease, unless judged by the investigator to be more severe than expected for the participant's condition. The disease/disorder being studied or expected progression, signs, or symptoms of the disease/disorder being studied, unless more severe than expected for the participant's condition. Medical or surgical procedure (eg, endoscopy, appendectomy): the condition that leads to the procedure is the AE. Situations in which an untoward medical occurrence did not occur (social and/or convenience admission to a hospital). Anticipated day-to-day fluctuations of preexisting disease(s) or condition(s) present or detected at the start of the study that do not worsen.

10.3.2. Definition of an SAE

An SAE is defined as any untoward medical occurrence that, at any dose, meets one or more of the criteria listed below:
a. Results in death
b. Is life-threatening The term "life-threatening" in the definition of "serious" refers to an event in which the participant was at risk of death at the time of the event. It does not refer to an event that hypothetically might have caused death if it were more severe.
c. Requires inpatient hospitalization or prolongation of existing hospitalization In general, hospitalization signifies that the participant has been admitted (usually involving at least an overnight stay) at the hospital or emergency ward for observation and/or treatment that would not have been appropriate in the physician's office or outpatient setting. Complications that occur during hospitalization are AEs. If a complication prolongs hospitalization or fulfills any other serious criteria, the event is serious. When in doubt as to whether "hospitalization" occurred or was necessary, the AE should be considered serious. Hospitalization for elective treatment of a preexisting condition that did not worsen from baseline is not considered an AE.

<p>d. Results in persistent or significant disability/incapacity</p> <ul style="list-style-type: none"> • The term disability means a substantial disruption of a person’s ability to conduct normal life functions. • This definition is not intended to include experiences of relatively minor medical significance, such as uncomplicated headache, nausea, vomiting, diarrhea, influenza, and accidental trauma (eg, sprained ankle), that may interfere with or prevent everyday life functions but do not constitute a substantial disruption.
<p>e. Is a congenital anomaly/birth defect</p>
<p>f. Is a suspected transmission via a Pfizer product of an infectious agent, pathogenic or non-pathogenic</p> <p>The event may be suspected from clinical symptoms or laboratory findings indicating an infection in a participant exposed to a Pfizer product. The terms “suspected transmission” and “transmission” are considered synonymous. These cases are considered unexpected and handled as serious expedited cases by pharmacovigilance personnel. Such cases are also considered for reporting as product defects, if appropriate.</p>
<p>g. Other situations:</p> <ul style="list-style-type: none"> • Medical or scientific judgment should be exercised by the investigator in deciding whether SAE reporting is appropriate in other situations, such as significant medical events that may jeopardize the participant or may require medical or surgical intervention to prevent one of the other outcomes listed in the above definition. These events should usually be considered serious. • Examples of such events include invasive or malignant cancers, intensive treatment in an emergency room or at home for allergic bronchospasm, blood dyscrasias or convulsions that do not result in hospitalization, or development of drug dependency or drug abuse.

10.3.3. Recording/Reporting and Follow-Up of AEs and/or SAEs During the Active Collection Period

AE and SAE Recording/Reporting
<p>The table below summarizes the requirements for recording AEs on the CRF and for reporting SAEs using the CT SAE Report Form/Vaccine SAE Report Form to Pfizer Safety throughout the active collection period. These requirements are delineated for 3</p>

types of events: (1) SAEs; (2) nonserious AEs; and (3) exposure to the study intervention under study during pregnancy or breastfeeding, and occupational exposure.

It should be noted that the CT SAE Report Form/Vaccine SAE Report Form for reporting of SAE information is not the same as the AE page of the CRF. When the same data are collected, the forms must be completed in a consistent manner. AEs should be recorded using concise medical terminology and the same AE term should be used on both the CRF and the CT SAE Report Form/Vaccine SAE Report Form for reporting of SAE information.

Safety Event	Recorded on the CRF	Reported on the CT SAE Report Form/Vaccine SAE Report Form to Pfizer Safety Within 24 Hours of Awareness
SAE	All	All
Nonserious AE	All	None
Exposure to the study intervention under study during pregnancy or breastfeeding	All AEs/SAEs associated with EDP or EDB Note: Instances of EDP or EDB not associated with an AE or SAE are not captured in the CRF	All instances of EDP are reported (whether or not there is an associated SAE)* All instances of EDB are reported (whether or not there is an associated SAE)**
Environmental or occupational exposure to the product under study to a nonparticipant (not involving EDP or EDB)	None. Exposure to a study non-participant is not collected on the CRF	The exposure (whether or not there is an associated AE or SAE) must be reported***

* **EDP** (with or without an associated SAE): is reported to Pfizer Safety using the CT SAE Report Form and EDP Supplemental Form.

** **EDB** is reported to Pfizer Safety using the CT SAE Report Form, which would also include details of any SAE that might be associated with the EDB.

*** **Environmental or occupational exposure:** AEs or SAEs associated with occupational exposure are reported to Pfizer Safety using the CT SAE Report Form.

- When an AE or SAE occurs, it is the responsibility of the investigator to review all documentation (eg, hospital progress notes, laboratory reports, and diagnostic reports) related to the event.
- The investigator will then record all relevant AE or SAE information in the CRF.

- It is **not** acceptable for the investigator to send photocopies of the participant's medical records to Pfizer Safety in lieu of completion of the CT SAE Report Form /AE or SAE CRF page.
- There may be instances when copies of medical records for certain cases are requested by Pfizer Safety. In this case, all participant identifiers, with the exception of the participant number, will be redacted on the copies of the medical records before submission to Pfizer Safety. Refer to Section 10.1.9 for actions that must be taken when medical records are sent to the sponsor or sponsor designee.
- The investigator will attempt to establish a diagnosis of the event based on signs, symptoms, and/or other clinical information. Whenever possible, the diagnosis (not the individual signs/symptoms) will be documented as the AE or SAE.

Assessment of Intensity

The investigator will make an assessment of intensity for each AE and SAE reported during the study and assign it to 1 of the following categories:

- **Mild:** A type of AE that is usually transient and may require only minimal treatment or therapeutic intervention. The event does not generally interfere with usual ADL.
- **Moderate:** A type of AE that is usually alleviated with additional specific therapeutic intervention. The event interferes with usual ADL, causing discomfort, but poses no significant or permanent risk of harm to the research participant.
- **Severe:** A type of AE that interrupts usual ADL, or significantly affects clinical status, or may require intensive therapeutic intervention.

An event is defined as “serious” when it meets at least 1 of the predefined outcomes as described in the definition of an SAE, NOT when it is rated as severe.

Assessment of Causality

- The investigator is obligated to assess the relationship between study intervention and each occurrence of each AE or SAE. The investigator will use clinical judgment to determine the relationship.
- A “reasonable possibility” of a relationship conveys that there are facts, evidence, and/or arguments to suggest a causal relationship, rather than a relationship cannot be ruled out.

- Alternative causes, such as underlying disease(s), concomitant therapy, and other risk factors, as well as the temporal relationship of the event to study intervention administration, will be considered and investigated.
- The investigator will also consult the IB and/or product information, for marketed products, in their assessment.
- For each AE or SAE, the investigator **must** document in the medical notes that they have reviewed the AE or SAE and have provided an assessment of causality.
- There may be situations in which an SAE has occurred and the investigator has minimal information to include in the initial report to the sponsor. However, **it is very important that the investigator always make an assessment of causality for every event before the initial transmission of the SAE data to the sponsor.**
- The investigator may change their opinion of causality in light of follow-up information and send an SAE follow-up report with the updated causality assessment.
- The causality assessment is one of the criteria used when determining regulatory reporting requirements.
- If the investigator does not know whether or not the study intervention caused the event, then the event will be handled as “related to study intervention” for reporting purposes, as defined by the sponsor. In addition, if the investigator determines that an SAE is associated with study procedures, the investigator must record this causal relationship in the source documents and CRF, and report such an assessment in the dedicated section of the CT SAE Report Form and in accordance with the SAE reporting requirements.

Follow-Up of AEs and SAEs

- The investigator is obligated to perform or arrange for the conduct of supplemental measurements and/or evaluations, as medically indicated or as requested by the sponsor, to elucidate the nature and/or causality of the AE or SAE as fully as possible. This may include additional laboratory tests or investigations, histopathological examinations, or consultation with other healthcare providers.
- If a participant dies during participation in the study or during a recognized follow-up period, the investigator will provide Pfizer Safety with a copy of any postmortem findings, including histopathology.

- New or updated information will be recorded in the originally submitted documents.
- The investigator will submit any updated SAE data to the sponsor within 24 hours of receipt of the information.

10.3.4. Reporting of SAEs

SAE Reporting to Pfizer Safety via an Electronic DCT

- The primary mechanism for reporting an SAE to Pfizer Safety will be the electronic DCT (eg, eSAE or PSSA).
- If the electronic system is unavailable, then the site will use the paper SAE report form (see next section) to report the event within 24 hours.
- The site will enter the SAE data into the electronic DCT (eg, eSAE or PSSA) or paper form (as applicable) as soon as the data become available.
- After the study is completed at a given site, the electronic DCT will be taken off-line to prevent the entry of new data or changes to existing data.
- If a site receives a report of a new SAE from a study participant or receives updated data on a previously reported SAE after the electronic DCT has been taken off-line, then the site can report this information on a paper SAE form (see next section) or to Pfizer Safety by telephone.

SAE Reporting to Pfizer Safety via the CT SAE Report Form

- Facsimile transmission of the CT SAE Report Form is one of the methods to transmit this information to Pfizer Safety.
- In circumstances when the facsimile is not working, an alternative method should be used, eg, secured (Transport Layer Security) or password-protected email. If none of these methods can be used, notification by telephone is acceptable with a copy of the CT SAE Report Form sent by overnight mail or courier service.
- Initial notification via telephone does not replace the need for the investigator to complete and sign the CT SAE Report Form pages within the designated reporting time frames.

10.4. Appendix 4: Contraceptive and Barrier Guidance

10.4.1. Male Participant Reproductive Inclusion Criteria

Male participants are eligible to participate if they agree to the following requirements during the intervention period and for at least 28 days after the last dose of study intervention, which corresponds to the time needed to eliminate reproductive safety risk of the study intervention(s):

- Refrain from donating sperm.

PLUS either:

- Be abstinent from heterosexual intercourse as their preferred and usual lifestyle (abstinent on a long-term and persistent basis) and agree to remain abstinent.

OR

- Must agree to use contraception/barrier as detailed below:
 - Agree to use a male condom, and should also be advised of the benefit for a female partner to use a highly effective method of contraception, as a condom may break or leak when having sexual intercourse with a WOCBP who is not currently pregnant.
 - In addition to male condom use, a highly effective method of contraception may be considered in WOCBP partners of male participants (refer to the list of highly effective methods below in [Section 10.4.4](#)).

10.4.2. Female Participant Reproductive Inclusion Criteria

The criteria below are part of Inclusion Criterion 1 (Age and Sex; [Section 5.1](#)) and specify the reproductive requirements for including female participants. Refer to [Section 10.4.4](#) for a complete list of contraceptive methods permitted in the study.

A female participant is eligible to participate if she is not pregnant or breastfeeding and at least 1 of the following conditions applies:

- Is not a WOCBP (see definition in [Section 10.4.3](#)).

OR

- Is a WOCBP and agrees to use a highly effective contraceptive method (failure rate of <1% per year) during the intervention period and for at least 28 days after the last dose of study intervention, which corresponds to the time needed to eliminate any reproductive safety risk of the study intervention(s). If a highly effective, user-dependent method is chosen, she agrees to concurrently use an effective barrier

method of contraception. The investigator should evaluate the effectiveness of the contraceptive method in relationship to the first dose of study intervention.

The investigator is responsible for review of medical history, menstrual history, and recent sexual activity to decrease the risk for inclusion of a woman with an early undetected pregnancy.

10.4.3. Woman of Childbearing Potential

A woman is considered fertile following menarche and until becoming postmenopausal unless permanently sterile (see below).

If fertility is unclear (eg, amenorrhea or oligomenorrhea) and a menstrual cycle cannot be confirmed before the first dose of study intervention, additional evaluation should be considered.

Women in the following categories are not considered WOCBP:

1. Premenopausal female with 1 of the following:

- Documented hysterectomy;
- Documented bilateral salpingectomy;
- Documented bilateral oophorectomy.

For individuals with permanent infertility due to a medical cause other than the above (eg, mullerian agenesis, androgen insensitivity), investigator discretion should be applied to determining study entry.

Note: Documentation for any of the above categories can come from the site personnel's review of the participant's medical records, medical examination, or medical history interview. The method of documentation should be recorded in the participant's medical record for the study.

2. Postmenopausal female.

- A postmenopausal state is defined as no menses for 12 months without an alternative medical cause. In addition:
 - A high FSH level in the postmenopausal range must be used to confirm a postmenopausal state in women under 60 years old and not using hormonal contraception or HRT.
 - A female on HRT and whose menopausal status is in doubt will be required to use one of the highly effective nonestrogen hormonal contraception methods if she wishes to continue her HRT during the study. Otherwise, she must

discontinue HRT to allow confirmation of postmenopausal status before study enrollment.

10.4.4. Contraception Methods

Contraceptive use by men or women should be consistent with local availability/regulations regarding the use of contraceptive methods for those participating in clinical trials.

The following contraceptive methods are appropriate for this study:

Highly Effective Methods That Have Low User Dependency

1. Implantable progestogen-only hormone contraception associated with inhibition of ovulation.
2. Intrauterine device.
3. Intrauterine hormone-releasing system.
4. Bilateral tubal occlusion.
5. Vasectomized partner.
 - Vasectomized partner is a highly effective contraceptive method provided that the partner is the sole sexual partner of the WOCBP and the absence of sperm has been confirmed. If not, an additional highly effective method of contraception should be used. The spermatogenesis cycle is approximately 90 days.

Highly Effective Methods That Are User Dependent

6. Combined (estrogen- and progestogen-containing) hormonal contraception associated with inhibition of ovulation:
 - Oral + barrier*
 - Intravaginal + barrier*
 - Transdermal + barrier*
7. Progestogen-only hormone contraception associated with inhibition of ovulation:
 - Oral + barrier*
 - Injectable + barrier*

8. Sexual Abstinence

Sexual abstinence is considered a highly effective method only if defined as refraining from heterosexual intercourse during the entire period of risk associated with the study intervention. The reliability of sexual abstinence needs to be evaluated in relation to the duration of the study and the preferred and usual lifestyle of the participant.

* Acceptable barrier methods to be used concomitantly with options 6 or 7 for the study include any of the following:

- Male or female condom with or without spermicide;
- Cervical cap, diaphragm, or sponge with spermicide;
- A combination of male condom with either cervical cap, diaphragm, or sponge with spermicide (double-barrier methods).

10.5. Appendix 5: Liver Safety: Suggested Actions and Follow-Up Assessments

Potential Cases of Drug-Induced Liver Injury

Humans exposed to a drug who show no sign of liver injury (as determined by elevations in transaminases) are termed “tolerators,” while those who show transient liver injury but adapt are termed “adaptors.” In some participants, transaminase elevations are a harbinger of a more serious potential outcome. These participants fail to adapt and therefore are “susceptible” to progressive and serious liver injury, commonly referred to as DILI. Participants who experience a transaminase elevation above $3 \times \text{ULN}$ should be monitored more frequently to determine if they are “adaptors” or are “susceptible.”

LFTs are not required as a routine safety monitoring procedure in this study. However, should an investigator deem it necessary to assess LFTs because a participant presents with clinical signs/symptoms, such LFT results should be managed and followed as described below.

In the majority of DILI cases, elevations in AST and/or ALT precede T bili elevations ($>2 \times \text{ULN}$) by several days or weeks. The increase in T bili typically occurs while AST/ALT is/are still elevated above $3 \times \text{ULN}$ (ie, AST/ALT and T bili values will be elevated within the same laboratory sample). In rare instances, by the time T bili elevations are detected, AST/ALT values might have decreased. This occurrence is still regarded as a potential DILI. Therefore, abnormal elevations in either AST OR ALT in addition to T bili that meet the criteria outlined below are considered potential DILI (assessed per Hy’s law criteria) cases and should always be considered important medical events, even before all other possible causes of liver injury have been excluded.

The threshold of laboratory abnormalities for a potential DILI case depends on the participant’s individual baseline values and underlying conditions. Participants who present with the following laboratory abnormalities should be evaluated further as potential DILI (Hy’s law) cases to definitively determine the etiology of the abnormal laboratory values:

- Participants with AST/ALT and T bili baseline values within the normal range who subsequently present with AST OR ALT values $\geq 3 \times \text{ULN}$ AND a T bili value $\geq 2 \times \text{ULN}$ with no evidence of hemolysis and an alkaline phosphatase value $< 2 \times \text{ULN}$ or not available.
- For participants with baseline AST **OR** ALT **OR** T bili values above the ULN, the following threshold values are used in the definition mentioned above, as needed, depending on which values are above the ULN at baseline:
 - Preexisting AST or ALT baseline values above the normal range: AST or ALT values ≥ 2 times the baseline values AND $\geq 3 \times \text{ULN}$; or $\geq 8 \times \text{ULN}$ (whichever is smaller).

- Preexisting values of T bili above the normal range: T bili level increased from baseline value by an amount of $\geq 1 \times \text{ULN}$ **or** if the value reaches $\geq 3 \times \text{ULN}$ (whichever is smaller).

Rises in AST/ALT and T bili separated by more than a few weeks should be assessed individually based on clinical judgment; any case where uncertainty remains as to whether it represents a potential Hy's law case should be reviewed with the sponsor.

The participant should return to the investigator site and be evaluated as soon as possible, preferably within 48 hours from awareness of the abnormal results. This evaluation should include laboratory tests, detailed history, and physical assessment.

In addition to repeating measurements of AST and ALT and T bili for suspected Hy's law cases, additional laboratory tests should include albumin, CK, direct and indirect bilirubin, GGT, PT/INR, eosinophils (%), and alkaline phosphatase. Consideration should also be given to drawing a separate tube of clotted blood and an anticoagulated tube of blood for further testing, as needed, for further contemporaneous analyses at the time of the recognized initial abnormalities to determine etiology. A detailed history, including relevant information, such as review of ethanol, acetaminophen/paracetamol (either by itself or as a coformulated product in prescription or over-the-counter medications), recreational drug, or supplement (herbal) use and consumption, family history, sexual history, travel history, history of contact with a jaundiced person, surgery, blood transfusion, history of liver or allergic disease, and potential occupational exposure to chemicals, should be collected. Further testing for acute hepatitis A, B, C, D, and E infection, total bile acids, liver imaging (eg, biliary tract), and collection of serum samples for acetaminophen/paracetamol drug and/or protein adduct levels may be warranted.

All cases demonstrated on repeat testing as meeting the laboratory criteria of AST/ALT and T bili elevation defined above should be considered potential DILI (Hy's law) cases if no other reason for the LFT abnormalities has yet been found. **Such potential DILI (Hy's law) cases are to be reported as SAEs, irrespective of availability of all the results of the investigations performed to determine etiology of the LFT abnormalities.**

A potential DILI (Hy's law) case becomes a confirmed case only after all results of reasonable investigations have been received and have excluded an alternative etiology.

10.6. Appendix 6: Kidney Safety: Monitoring Guidelines

10.6.1. Laboratory Assessment of Change in Kidney Function and Detection of Kidney Injury

Standard kidney safety monitoring requires assessment of baseline and postbaseline Screat measurement to estimate kidney function [Screat-based eGFR] or creatinine clearance [eCrCl]. Obtaining Screening or Baseline Scys and postbaseline reflex Scys (if confirmed Screat increase ≥ 0.3 mg/dL) makes it feasible to distinguish AKI from DICI. If Screat increase is confirmed after baseline, then reflex measurement of Scys is indicated:

ADULTS: Currently, 2021 CKD-EPI eGFR equations (Screat only-based and combined Screat plus Scys-based) are valid for use in adults only. At baseline Screat and Scys values are needed to calculate 2021 CKD-EPI eGFR by Screat only-based equation (see Table 10.7.2.1.) and by combined Screat plus Scys-based equation. When post-baseline Screat increase ≥ 0.3 mg/dL is confirmed, then reflex Scys measurement is needed to enable post-baseline comparison of eGFR changes (Screat only-based eGFR and combined Screat plus Scys eGFR).

10.6.2. Age-Specific Kidney Function Calculation Recommendations

10.6.2.1. Adults (18 Years and Above)—2021 CKD-EPI Equations

eGFR (mL/min/1.73m²)¹¹

2021 CKD-EPI Screat Only	Screat (mg/dL)	Scys (mg/L)	Recommended eGFR Equation
Female	if ≤ 0.7	NA	$eGFR = 143 \times (Screat/0.7)^{-0.241} \times (0.9938)^{Age}$
Female	if > 0.7	NA	$eGFR = 143 \times (Screat/0.7)^{-1.200} \times (0.9938)^{Age}$
Male	if ≤ 0.9	NA	$eGFR = 142 \times (Screat/0.9)^{-0.302} \times (0.9938)^{Age}$
Male	if > 0.9	NA	$eGFR = 142 \times (Screat/0.9)^{-1.200} \times (0.9938)^{Age}$
2021 CKD-EPI Screat-Scys Combined	Screat (mg/dL)	Scys (mg/L)	Recommended eGFR Equation
Female	if ≤ 0.7	if ≤ 0.8	$eGFR = 130 \times (Screat/0.7)^{-0.219} \times (Scys/0.8)^{-0.323} \times (0.9961)^{Age}$
Female	if ≤ 0.7	if > 0.8	$eGFR = 130 \times (Screat/0.7)^{-0.219} \times (Scys/0.8)^{-0.778} \times (0.9961)^{Age}$
Female	if > 0.7	if ≤ 0.8	$eGFR = 130 \times (Screat/0.7)^{-0.544} \times (Scys/0.8)^{-0.323} \times (0.9961)^{Age}$
Female	if > 0.7	if > 0.8	$eGFR = 130 \times (Screat/0.7)^{-0.544} \times (Scys/0.8)^{-0.778} \times (0.9961)^{Age}$
Male	if ≤ 0.9	if ≤ 0.8	$eGFR = 135 \times (Screat/0.9)^{-0.144} \times (Scys/0.8)^{-0.323} \times (0.9961)^{Age}$
Male	if ≤ 0.9	if > 0.8	$eGFR = 135 \times (Screat/0.9)^{-0.144} \times (Scys/0.8)^{-0.778} \times (0.9961)^{Age}$
Male	if > 0.9	if ≤ 0.8	$eGFR = 135 \times (Screat/0.9)^{-0.544} \times (Scys/0.8)^{-0.323} \times (0.9961)^{Age}$
Male	if > 0.9	if > 0.8	$eGFR = 135 \times (Screat/0.9)^{-0.544} \times (Scys/0.8)^{-0.778} \times (0.9961)^{Age}$

10.6.3. Kidney Function Calculation Tools

The sponsor has provided the following resources to investigational sites when required to calculate age-specific kidney function at Screening, Baseline, and post-Baseline visits. Site calculations of kidney function can be performed manually, using the age appropriate

formulae (see [Section 10.6.2](#)) and can use recommended online kidney function calculators to reduce the likelihood of a calculation error.

The United States National Kidney Foundation Online Calculators.

- Adults (18 years and above) - 2021 CKD-EPI Creatinine Online Calculator (eGFR):

Investigational sites are responsible to ensure that the accurate age-specific equation is selected and that the correct units for serum creatinine (mg/dL only), serum cystatin C (mg/L only), total body weight (kg only), and age (years). Investigators are expected to (i) review and confirm correctness of the kidney function calculation results and (ii) evaluate the calculated value within the context of historical information available to them in the participant's medical record. Investigators are responsible for the clinical oversight of the participant eligibility process, kidney function calculation, and dose selection and adjustments per study protocol. Investigators are encouraged to direct questions or uncertainties regarding kidney function and dosing to the Pfizer Clinical Team and Medical Monitor, if needed.

10.6.4. Adverse Event Grading for Kidney Safety Laboratory Abnormalities

AE grading for decline in kidney function (ie, eGFR or eCrCl) will be according to Kidney Disease: Improving Global Outcomes (KDIGO) criteria for both pediatric and adult participants.

KDIGO criteria grade (G)	Study Population	G1	G2	G3	G4	G5
Decreased Kidney Function due to either Acute or Chronic Kidney Injury	Adult participants eGFR (mL/min/1.73m ²)	≥90	≥60 to 89	30 to 59	15 to 29	<15

KDIGO albuminuria (A) criteria	A1	A2	A3
Albumin-to-creatinine ratio (ACR)	<30 mg/g OR <3 mg/mmol	30 to 300 mg/g OR 3 to 30 mg/mmol	>300 mg/g OR >30 mg/mmol

10.7. Appendix 7: ECG Findings of Potential Clinical Concern

ECG Findings That <u>May</u> Qualify as AEs
<ul style="list-style-type: none"> Marked sinus bradycardia (rate <40 bpm) lasting minutes. New PR interval prolongation >280 ms. New prolongation of QTcF to >480 ms (absolute). New prolongation of QTcF by >60 ms from baseline. New-onset atrial flutter or fibrillation, with controlled ventricular response rate: ie, rate <120 bpm. New-onset type I second-degree (Wenckebach) AV block of >30-second duration. Frequent PVCs, triplets, or short intervals (<30 seconds) of consecutive ventricular complexes.
ECG Findings That <u>May</u> Qualify as SAEs
<ul style="list-style-type: none"> QTcF prolongation >500 ms. Absolute value of QTcF > 450 ms AND QTcF change from baseline >60 ms. New ST-T changes suggestive of myocardial ischemia. New-onset LBBB (QRS complex >120 ms). New-onset right bundle branch block (QRS complex >120 ms). Symptomatic bradycardia. Asystole <ul style="list-style-type: none"> In awake, symptom-free participants in sinus rhythm, with documented asystolic pauses ≥ 3 seconds or any escape rate <40 bpm, or with an escape rhythm that is below the AV node; In awake, symptom-free participants with atrial fibrillation and bradycardia with 1 or more asystolic pauses of at least 5 seconds or longer. Atrial flutter or fibrillation, with rapid ventricular response rate: rapid = rate >120 bpm.

- Sustained supraventricular tachycardia (rate >120 bpm) (“sustained” = short duration with relevant symptoms or lasting >1 minute).
- Ventricular rhythms >30 seconds’ duration, including idioventricular rhythm (HR <40 bpm), accelerated idioventricular rhythm (HR >40 bpm to <100 bpm), and monomorphic/polymorphic ventricular tachycardia (HR >100 bpm [such as torsades de pointes]).
- Type II second-degree (Mobitz II) AV block.
- Complete (third-degree) heart block.

ECG Findings That Qualify as SAEs

- Change in pattern suggestive of new myocardial infarction.
- Sustained ventricular tachyarrhythmias (>30-seconds duration).
- Second- or third-degree AV block requiring pacemaker placement.
- Asystolic pauses requiring pacemaker placement.
- Atrial flutter or fibrillation with rapid ventricular response requiring cardioversion.
- Ventricular fibrillation/flutter.
- At the discretion of the investigator, any arrhythmia classified as an adverse experience.

The major events of potential clinical concern listed above are recommended as “alerts” or notifications from the core ECG laboratory to the investigator and Pfizer study team, and not to be considered as all-inclusive of what is to be reported as AEs/SAEs.

10.8. Appendix 8: Prohibited Concomitant Medications That May Result in DDI

The prohibited concomitant medications listed below should not be taken with sisunatovir for the period of time at least equal to the required washout period listed in the table, and throughout the conduct of the study.

The Pfizer study team is to be notified of any prohibited medications taken during the study. After consulting with the sponsor, the investigator will make a judgment on the ongoing participation of any participant with prohibited medication use during the study.

This list of drugs prohibited for potential DDI concerns with the IMP may be revised during the course of the study with written notification from sponsor, to include or exclude specific drugs or drug categories for various reasons (eg, emerging DDI results for the IMP, availability of new information in literature on the DDI potential of other drugs), if the overall benefit: risk assessment is not impacted or if the changes do not significantly impact the safety of participants or the scientific value of the trial

Strong and moderate CYP3A4 and P-gp inhibitors or inducers are prohibited, as these medications may have meaningful impact on the pharmacokinetics of sisunatovir.

Sisunatovir is a CYP3A4 inhibitor and therefore sensitive and narrow therapeutic index CYP3A4 substrates are also prohibited in this study.

Sisunatovir also may be an inhibitor of OCT1 and MATE1 transporters; therefore, sensitive substrates of these transporters are excluded.

This is not an all-inclusive list. Site staff should consult with the sponsor or designee with any questions regarding potential DDI.

Prohibited Concomitant Medications

CYP3A Inhibitors		CYP3A Inducers	
Moderate	Strong	Moderate	Strong
Aprepitant	Boceprevir	Bosentan	Apalutamide
Ciprofloxacin	Cobicistat	Efavirenz	Carbamazepine
Conivaptan	Danoprevir	Etravirine	Enzalutamide
Crizotinib	Dasabuvir	Phenobarbital	Mitotane
Cyclosporine	Elvitegravir	Primidone	Phenytoin
Diltiazem	Indinavir		Rifampin
Dronedarone	Itraconazole		St. John's wort
Erythromycin	Ketoconazole		
Fluconazole	Lopinavir		
Fluvoxamine	Paritaprevir		
Imatinib	Ombitasvir		
Tofisopam	Posaconazole		
Verapamil	Ritonavir		
	Saquinavir		
	Telaprevir		
	Tipranavir		
	Telithromycin		
	Troleandomycin		
	Voriconazole		

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Sensitive CYP3A Substrates		CYP3A Substrates with Narrow Therapeutic Index
Alfentanil	Lovastatin	Alfentanil
Atorvastatin	Lurasidone	Astemizole
Avanafil	Maraviroc	Cisapride
Budesonide	Midazolam	Cyclosporine
Buspirone	Naloxegol	Dihydroergotamine
Darifenacin	Nisoldipine	Ergotamine
Darunavir	Quetiapine	Fentanyl
Dasatinib	Sildenafil	Pimozide
Dronedaron	Simvastatin	Quinidine
Ebastine	Sirolimus	Sirolimus
Eletriptan	Tacrolimus	Tacrolimus
Eplerenone	Ticagrelor	Terfenadine
Everolimus	Tolvaptan	
Ibrutinib	Tipranavir	
Indinavir	Triazolam	
Felodipine	Vardenafil	
Lomitapide		
Sensitive MATE1 Substrates		
Metformin		
P-gp Inhibitors		P-gp Inducers
Atazanavir	Lopinavir	Apalutamide
Boceprevir	Lumacaftor	Atazanavir
Cobicistat	Mifepristone	Fosamprenavir
Conivaptan	Nelfinavir	Lopinavir
Cyclosporine	Ombitasvir and Paritaprevir and Ritonavir and Dasabuvir	Rifampicin
Darunavir	Posaconazole	st. John's wort (<i>Hypericum perforatum</i>) extract
Diltiazem	Ritonavir	Tipranavir
Elvitegravir and Cobicistat and Emtricitabine and Tenofovir DF	Saquinavir	Verapamil
Erythromycin	Telaprevir	
Glecaprevir and Pibrentasvir	Tipranavir	
Indinavir	Tucatinib	
Itraconazole	Verapamil	
Ketoconazole	Vonoprazan and Amoxicillin and Clarithromycin	
Lonafarnib	Voxilaprevir	
Sensitive OCT Substrates		
Imatinib		

Not an all-inclusive list.

Investigators should consult the product label for any other medication used during the study for information regarding medication that is prohibited for concomitant use.

10.9. Appendix 9: Abbreviations

The following is a list of abbreviations that may be used in the protocol.

Abbreviation	Term
A1 to A3	albuminuria (KDIGO albuminuria severity standardization)
Abs	absolute
ADL	activity/activities of daily living
AE	adverse event
AKI	acute kidney injury
ALP	alkaline phosphatase
ALT	alanine aminotransferase
AST	aspartate aminotransferase
AUC	area under the curve
AUC ₁₂	area under the concentration-time curve from time zero to 12 hours
AUC ₂₄	area under the concentration-time curve from time zero to 24 hours (1 day)
AUC _{inf}	area under the concentration-time curve from time 0 to infinity
AUC _{last}	area under the concentration-time curve from time 0 to the time of last quantifiable concentration
AUC _{tau}	area under the concentration-time profile from time zero to time tau (the dosing interval), where tau = 12 hours for BID dosing
AV	atrioventricular
AxMP	auxiliary medicinal product
BID	twice-daily dosing
BMI	body mass index
BP	blood pressure
bpm	beats per minute
BUN	blood urea nitrogen
C _{av}	average concentration at steady state
CFR	Code of Federal Regulations
CI	confidence interval
CIOMS	Council for International Organizations of Medical Sciences
CK	creatinine kinase
CKD-EPI	chronic kidney disease epidemiology
CL/F	apparent clearance
C _{max}	maximum observed plasma concentration
CO ₂	carbon dioxide (bicarbonate)
COVID-19	coronavirus disease 2019
CRF	case report form
CRO	contract research organization
CRU	clinical research unit
CSR	Clinical Study Report
CT	clinical trial
CTIS	Clinical Trial Information System

Abbreviation	Term
C _{trough}	lowest concentration observed during the dosing interval
CV	Cardiovascular/coefficient of variation
CYP	cytochrome P450
DCT	data collection tool
DDI	drug-drug interaction
DIC	drug in capsule
DILI	drug-induced liver injury
DPB	sisunatovir dry powder blend
EC	ethics committee
ECC	emergency contact card
ECG	electrocardiogram or electrocardiography
eCrCl	estimated creatinine clearance
eCRF	electronic case report form
EDB	exposure during breastfeeding
E-DMC	External Data Monitoring Committee
EDP	exposure during pregnancy
EGFR	epidermal growth factor receptor
eSAE	electronic serious adverse event
ET	early termination
EU	European Union
EudraCT	European Union Drug Regulating Authorities Clinical Trials (European Clinical Trials Database)
FDA	Food and Drug Administration
FIH	first in human
FSH	follicle-stimulating hormone
F/U	follow-up
GCP	Good Clinical Practice
GFR	glomerular filtration rate
GGT	gamma-glutamyl transferase
GI	gastrointestinal
HBcAb	hepatitis B core antibody
HbsAb	hepatitis B surface antibody
HbsAg	hepatitis B surface antigen
HBP cyclodextrin	hydroxypropyl-β-cyclodextrin
HCVAbs	hepatitis C antibody
HIV	human immunodeficiency virus
HR	heart rate
HRT	hormone replacement therapy
IB	Investigator's Brochure
IBC	isobutyl carnitine
ICD	informed consent document
ICH	International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use

Abbreviation	Term
ICU	intensive care unit
ID	identification
IMP	investigational medicinal product
IND	Investigational New Drug
INR	international normalized ratio
IPAL	Investigational Product Accountability Log
IPM	investigational product manual
IRB	Institutional Review Board
IV	intravenous(ly)
K	Proportionality constant for Bedside and Modified Schwartz Equations (kidney function)
KDIGO	Kidney Disease Improving Global Outcomes
LBBB	left bundle branch block
LFT	liver function test
LRTI	lower respiratory tract infection
MAD	multiple ascending dose
MATE	multidrug and toxin extrusion
MQI	medically qualified individual
MRT	mean residence time
MTD	maximum tolerated dose
NA	not applicable/not available
NIMP	noninvestigational medicinal product
NMN	N1-METHYLNICOTINAMIDE
NOAEL	no-observed-adverse-effect level
OAT	organic anion transporting
OATP	organic anion transporting polypeptide
OCT	organic cation transporter
PD	pharmacodynamic(s)
PE	physical examination
P-gp	p-glycoprotein
PI	principal investigator
PIMS	Phase One Management System
PK	pharmacokinetic(s)
PR	pulse rate
PSSA	Pfizer's Serious Adverse Event Submission Assistant
PT	prothrombin time
PTR	peak-trough ratio
PVC	premature ventricular contraction/complex
Q12	every 12
QTc	corrected QT interval
QTcF	QTc corrected using Fridericia's formula
qual	qualitative
R _{ac}	observed accumulation ratio for AUC

Abbreviation	Term
$R_{ac,C_{max}}$	observed accumulation ratio for C_{max}
RBC	red blood cell
RSV	respiratory syncytial virus
SAD	single ascending dose
SADE	serious adverse device effect
SAE	serious adverse event
SAP	Statistical Analysis Plan
SARS-CoV-2	severe acute respiratory syndrome coronavirus 2
Scr	serum creatinine
Scys	serum cystatin C
SD	single dose
SoA	schedule of activities
SOC	system organ class
SOP	standard operating procedure
SRSD	Single Reference Safety Document
SUSAR	Suspected Unexpected Serious Adverse Reaction
$t_{1/2}$	terminal elimination half-life
TB	tuberculosis
T bili	total bilirubin
TEAE	treatment emergent adverse event
THC	tetrahydrocannabinol
T_{max}	time to reach C_{max}
UACR	urine albumin/creatinine ratio
ULN	upper limit of normal
US	United States
V_z/F	apparent volume of distribution
WBC	white blood cell
WOCP	woman/women of childbearing potential

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