Ibuzatrelvir

Cat. No.:	HY-156654	<u>∕</u> NH
CAS No.:	2755812-39-4	
Molecular Formula:	C ₂₁ H ₃₀ F ₃ N ₅ O ₅	N
Molecular Weight:	489.49	
Target:	SARS-CoV; Virus Protease	
Pathway:	Anti-infection	
Storage:	4°C, sealed storage, away from moisture	J → F
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	F F

SOLVENT & SOLUBILITY

DMSO : 100 mg/mL (204.29 mM; Need ultrasonic)				
Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.0429 mL	10.2147 mL	20.4294 mL
	5 mM	0.4086 mL	2.0429 mL	4.0859 mL
	10 mM	0.2043 mL	1.0215 mL	2.0429 mL
Please refer to the so	olubility information to select the app	propriate solvent.		
Solubility: ≥ 2.5 m 2. Add each solvent	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution 			
	Preparing Stock Solutions Please refer to the solution 1. Add each solvent Solubility: ≥ 2.5 m 2. Add each solvent	Solvent Mass Solvent Solvent Preparing 1 mM Stock Solutions 5 mM 10 mM 10 mM Please refer to the solubility information to select the appendict of th	Solvent Mass Preparing 1 mM Stock Solutions 1 mM 5 mM 0.4086 mL 10 mM 0.2043 mL Please refer to the solubility information to select the appropriate solvent. 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)	SolventMass 1 mg5 mgPreparing Stock Solutions1 mM 2.0429 mL 10.2147 mL Stock Solutions5 mM 0.4086 mL 2.0429 mL 10 mM 0.2043 mL 1.0215 mL Please refer to the solubility information to select the appropriate solvent.1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween- 80 >> 45% saline Solubility: ≥ 2.5 mg/mL (5.11 mM); Clear solution2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)

BIOLOGICAL ACTIVITY				
Description	Ibuzatrelvir (PF-07817883) is an antiviral agent, targeting to SARS-CoV-2 3CL protease. Ibuzatrelvir can be used to inhibit COVID-19 ^[1] .			
IC ₅₀ & Target	SARS-CoV-2 3CL protease, COVID-19 ^[1]			

REFERENCES

[1]. Owen, et al. Preparation of peptidomimetic nitriles as SARS-CoV-2 3CL protease inhibitors and methods for the treatment of COVID-19. World Intellectual Property Organization, WO2021250648 A1. 2021-12-16.



Caution: Product has not been fully validated for medical applications. For research use only.

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