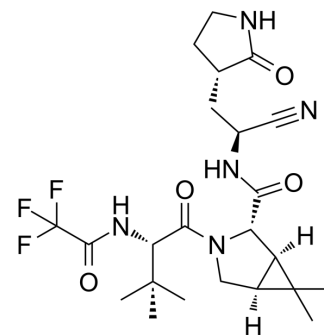


## PF-07321332

<b>Cat. No.:</b>	HY-138687		
<b>CAS No.:</b>	2628280-40-8		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>32</sub> F <sub>3</sub> N <sub>5</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	499.53		
<b>Target:</b>	SARS-CoV		
<b>Pathway:</b>	Anti-infection		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 140 mg/mL (280.26 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		2.0019 mL	10.0094 mL	20.0188 mL
		<b>5 mM</b>		0.4004 mL	2.0019 mL	4.0038 mL
	<b>10 mM</b>		0.2002 mL	1.0009 mL	2.0019 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 3.5 mg/mL (7.01 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 3.5 mg/mL (7.01 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3.5 mg/mL (7.01 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	PF-07321332 is a potent and orally active SARS-CoV 3CL <sup>PRO</sup> inhibitor . PF-07321332 targets to the SARS-CoV-2 virus and can be used for COVID-19 research <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 3CL <sup>PRO</sup> [1]
<b>In Vitro</b>	3CL <sup>PRO</sup> is responsible for cleaving polyproteins 1a and 1ab of SARS-CoV-2.1. Without the activity of the SARS-CoV-2 3CL <sup>PRO</sup> , nonstructural proteins (including proteases) cannot be released to perform their functions, inhibiting viral replication <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. KoenVandyck, et al. Considerations for the Discovery and Development of 3-Chymotrypsin-Like Cysteine Protease Inhibitors Targeting SARS-CoV-2 Infection. Current Opinion in Virology Available online 27 April 2021

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

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