## PF-00835231

Cat. No.:	HY-137048			
CAS No.:	870153-29-0			
Molecular Formula:	$C_{24}H_{32}N_4O_6$			
Molecular Weight:	472.53			
Target:	SARS-CoV			
Pathway:	Anti-infection			
Storage:	Powder	-20°C	3 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (529.07 mM; Need ultrasonic)						
Preparing Stock Solutions	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.1163 mL	10.5813 mL	21.1627 mL		
	5 mM	0.4233 mL	2.1163 mL	4.2325 mL			
		10 mM	0.2116 mL	1.0581 mL	2.1163 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.40 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.40 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.40 mM); Clear solution						

Brozoora, zhorn					
Description	PF-00835231 is a CoV-2 cysteine 3C-like protease (3CL <sup>pro</sup> ) inhibitor, with IC <sub>50</sub> s of 0.27 nM and 4 nM for SARS CoV-2 and SARS CoV-1 3CL <sup>pro</sup> , respectively. PF-00835231 is developed for the research of anti-SARS-CoV-2/COVID-19 <sup>[1]</sup> sup>[2].				
IC <sub>50</sub> & Target	3CL <sup>pro[1]</sup>				

### CUSTOMER VALIDATION

# Product Data Sheet





• J Virol. 2022 Aug 24;e0090722.

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### REFERENCES

[1]. de Vries M, et al. A comparative analysis of SARS-CoV-2 antivirals in human airway models characterizes 3CLpro inhibitor PF-00835231 as a potential new treatment for COVID-19. bioRxiv [Preprint]. 2021 Feb 19:2020.08.28.272880.

[2]. Robert L Hoffman, et al. Discovery of Ketone-Based Covalent Inhibitors of Coronavirus 3CL Proteases for the Potential Therapeutic Treatment of COVID-19. J Med Chem. 2020 Nov 12;63(21):12725-12747.

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

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