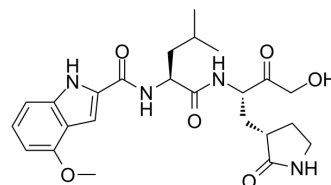


## PF-00835231

Cat. No.:	HY-137048	
CAS No.:	870153-29-0	
Molecular Formula:	C <sub>24</sub> H <sub>32</sub> N <sub>4</sub> O <sub>6</sub>	
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)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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

- 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
- 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
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.40 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### 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>.

#### IC<sub>50</sub> & Target

3CL<sup>pro</sup>[1]

### CUSTOMER VALIDATION

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- J Virol. 2022 Aug 24;e0090722.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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## REFERENCES

[1]. 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.

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

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