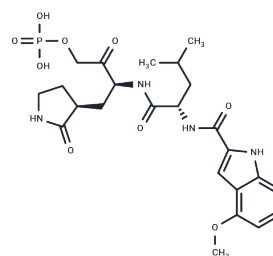


Lufotrelvir

Chemical Properties

CAS No. :	2468015-78-1
Formula:	C ₂₄ H ₃₃ N ₄ O ₉ P
Molecular Weight:	552.51
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Lufotrelvir (PF-07304814) is a small molecule inhibitor of the SARS CoV-2 3CL protease for the treatment of COVID-19 with broad-spectrum anti-SARS activity for the study of novel coronavirus infections.
Targets(IC50)	SARS-CoV
In vivo	After intravenous administration to rats, dogs, and monkeys, Lufotrelvir exhibits favorable cardiovascular safety and pharmacokinetic parameters[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (180.99 mM), Sonification is recommended. H ₂ O: 30 mg/mL (54.30 mM), Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8099 mL	9.0496 mL	18.0992 mL
5 mM	0.362 mL	1.8099 mL	3.6198 mL
10 mM	0.181 mL	0.905 mL	1.8099 mL
50 mM	0.0362 mL	0.181 mL	0.362 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Koen Vandyck, et al. Considerations for the discovery and development of 3-chymotrypsin-like cysteine protease inhibitors targeting SARS-CoV-2 infection. Curr Opin Virol. 2021 Apr 27;49:36-40.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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