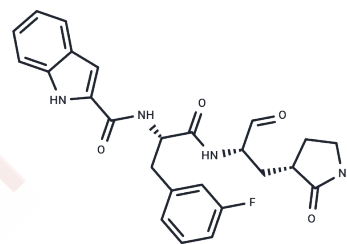


SARS-CoV MPro-IN-1

Chemical Properties

CAS No. :	2413716-71-7
Formula:	C ₂₅ H ₂₅ N ₄ O ₄
Molecular Weight:	464.49
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	MProinhibitor 11b is an inhibitor of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) main protease (MPro; IC ₅₀ = 0.04 μM in a TR-FRET assay). It reduces viral yield in the culture supernatant of SARS-CoV-2-infected Vero E6 cells (EC ₅₀ = 0.72 μM). MProinhibitor 11b also reduces viral RNA copy numbers in the same model when used at concentrations ranging from 1.85 to 50 μM.
Targets(IC ₅₀)	Others,SARS-CoV

Solubility Information

Solubility	DMSO: 30 mg/mL (64.59 mM),Sonication is recommended. DMF: 30 mg/mL (64.59 mM),Sonication is recommended. Ethanol: 30 mg/mL (64.59 mM),Sonication 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	2.1529 mL	10.7645 mL	21.529 mL
5 mM	0.4306 mL	2.1529 mL	4.3058 mL
10 mM	0.2153 mL	1.0764 mL	2.1529 mL
50 mM	0.0431 mL	0.2153 mL	0.4306 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Dai, W., Zhang, B., Jiang, X.-M., et al. Structure-based design of antiviral drug candidates targeting the SARS-CoV-2 main protease. *Science* 368(6497):1331-1335 (2020)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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