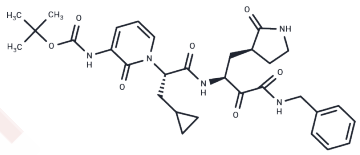
Data Sheet (Cat.No.T12836)

TargetMol

SARS-CoV-2-IN-1

Chemical Properties



CAS No. : 2412965-59-2

Formula: C31H39N5O7

Molecular Weight: 593.67

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	SARS-CoV-2-IN-1 is a potent inhibitor of Mpro [SARS-CoV-2 Mpro, SARS-CoV Mpro, and MERS-CoV Mpro] with IC50 values of 0.67, 0.90, and 0.58 μM, respectively.
Targets(IC50)	Others,SARS-CoV,Virus Protease
In vitro	SARS-CoV-2-IN-1 inhibits RNA replication with an EC50 of 1.75 μM in a SARS-CoV replicon. In human Calu3 cells infected with the novel coronavirus, SARS-CoV-2, SARS-CoV-2-IN1(EC50 of 4-5 μM).
In vivo	SARS-CoV-2-IN-1 demonstrates a maximum concentration (Cmax) of 126.2 ng/mL. It exhibits an extended mean residence time of 2.7 hours and a plasma half-life of 1.8 hours in CD-1 mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6844 mL	8.4222 mL	16.8444 mL
5 mM	0.3369 mL	1.6844 mL	3.3689 mL
10 mM	0.1684 mL	0.8422 mL	1.6844 mL
50 mM	0.0337 mL	0.1684 mL	0.3369 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

Zhang L, et al. Crystal structure of SARS-CoV-2 main protease provides a basis for design of improved α-ketoamide inhibitors. Science. 2020 Mar 20. pii: eabb3405.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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