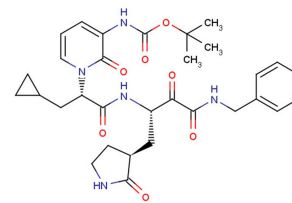


SARS-CoV-2-IN-1

Chemical Properties

CAS No.:	2412965-59-2
Formula:	C ₃₁ H ₃₉ N ₅ O ₇
Molecular Weight:	593.67
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



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 IC ₅₀ s of 0.67, 0.90 and 0.58 μ M, respectively).
Targets(IC ₅₀)	Others: None
In vitro	SARS-CoV-2-IN-1 inhibits RNA replication with an EC ₅₀ of 1.75 μ M in a SARS-CoV replicon. In human Calu3 cells infected with the novel coronavirus, SARS-CoV-2, SARS-CoV-2-IN1(EC ₅₀ of 4-5 μ M).
In vivo	SARS-CoV-2-IN-1 shows the C _{max} is 126.2 ng/mL. The mean residence time for SARS-CoV-2-IN-1 is extended to 2.7 hours and the plasma half-life in CD-1 mice is 1.8 hour.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.684 mL	8.422 mL	16.844 mL
5 mM	0.337 mL	1.684 mL	3.369 mL
10 mM	0.168 mL	0.842 mL	1.684 mL
50 mM	0.034 mL	0.168 mL	0.337 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481