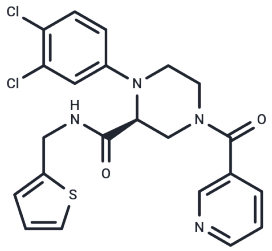
Data Sheet (Cat.No.T63098)

TargetMol

SARS-CoV-2 Mpro-IN-2

Chemical Properties



CAS No. : 2768834-39-3

Formula: C22H20Cl2N4O2S

Molecular Weight: 475.39

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 Mpro-IN-2 is a selective SARS-CoV-2M pro inhibitor with an IC50 value of 0.40 μM.SARS-CoV-2 Mpro-IN-2 has good antiviral activity and can be used to study COVID-19.
Targets(IC50)	SARS-CoV
In vitro	In Vero E6 cells, SARS-CoV-2 Mpro-IN-2 (0.01-100 μM; 4 hours) exhibited low cytotoxicity, with a CC50 value exceeding 100 μM.
In vivo	In male Sprague-Dawley rats, SARS-CoV-2 Mpro-IN-2 (2 mg/kg intravenous injection; 10 mg/kg oral administration; single dose) exhibited favorable pharmacokinetic parameters [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1035 mL	10.5177 mL	21.0354 mL
5 mM	0.4207 mL	2.1035 mL	4.2071 mL
10 mM	0.2104 mL	1.0518 mL	2.1035 mL
50 mM	0.0421 mL	0.2104 mL	0.4207 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

Gao S, et al. Discovery and Crystallographic Studies of Trisubstituted Piperazine Derivatives as Non-Covalent SARS-CoV-2 Main Protease Inhibitors with High Target Specificity and Low Toxicity. J Med Chem. 2022 Sep 15:acs.jmedchem.2c01146.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481