

## SARS-CoV-2 3CLpro-IN-5

## Chemical Properties

CAS No. :	2913186-57-7
Formula:	C <sub>22</sub> H <sub>26</sub> ClF <sub>2</sub> N <sub>5</sub> O <sub>4</sub>
Molecular Weight:	497.92
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 3CLpro-IN-5 is a covalent inhibitor targeting the 3C-like protease (3CLpro), with potent inhibitory activity (IC <sub>50</sub> : 3.8 nM) and 9.0% oral bioavailability (BA), used in COVID-19 research [1].
Targets(IC <sub>50</sub> )	SARS-CoV
In vitro	SARS-CoV-2 3CLpro-IN-5 demonstrates inhibitory activity against 3CL protease with an IC <sub>50</sub> of 3.8 nM [1], and antiviral effects against SARS-CoV-2 variants (Alpha, Delta, Omicron BA.1, BA.2) in 293TAT cells, with EC <sub>50</sub> values of 13.8 nM, 7.57 nM, 9.01 nM, and 17.1 nM, respectively [1]. It also shows activity against other coronaviruses: SARS-CoV (EC <sub>50</sub> 59.3 nM), MERS-CoV in 293TDPP4 cells (EC <sub>50</sub> 4.72 nM), and HCoV-OC43 (EC <sub>50</sub> 1.67 nM) [1].
In vivo	SARS-CoV-2 3CLpro-IN-5, when administered orally or intravenously at dosages of 10 or 100 mg/kg, exhibits potent antiviral effects and possesses advantageous pharmacokinetic properties [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0084 mL	10.0418 mL	20.0835 mL
5 mM	0.4017 mL	2.0084 mL	4.0167 mL
10 mM	0.2008 mL	1.0042 mL	2.0084 mL
50 mM	0.0402 mL	0.2008 mL	0.4017 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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