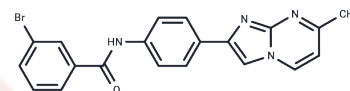


## SARS-CoV-2 nsp13-IN-4

## Chemical Properties

CAS No. :	923140-39-0
Formula:	C <sub>20</sub> H <sub>15</sub> BrN <sub>4</sub> O
Molecular Weight:	407.26
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 nsp13-IN-4 (C4 (d)) is a potent and selective small-molecule inhibitor of the nsp13 helicase. It exerts its effect by inhibiting the ssDNA+ ATPase activity of nsp13 with an IC <sub>50</sub> of 57 μM. Characterized as an agent-like molecule (MW < 450 Da), it demonstrates potential for broad-spectrum antiviral effects in coronavirus research.
Targets(IC <sub>50</sub> )	DNA/RNA Synthesis,SARS-CoV
In vitro	SARS-CoV-2 nsp13-IN-4 significantly inhibits nsp13 ATPase activity (IC <sub>50</sub> = 57 μM for ssDNA+ and 240 μM for ssDNA-) [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4554 mL	12.2772 mL	24.5543 mL
5 mM	0.4911 mL	2.4554 mL	4.9109 mL
10 mM	0.2455 mL	1.2277 mL	2.4554 mL
50 mM	0.0491 mL	0.2455 mL	0.4911 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

Aliakbar Khalili Yazdi, et al. Kinetic Characterization of SARS-CoV-2 nsp13 ATPase Activity and Discovery of Small-Molecule Inhibitors. ACS Infect Dis. 2022 Jul 13.

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