

SARS-CoV-2-IN-46

Chemical Properties

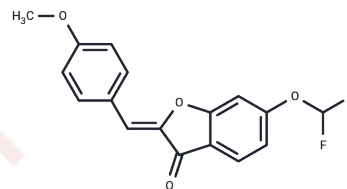
CAS No. :

Formula: C₁₇H₁₂F₂O₄

Molecular Weight: 318.07

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-46, a SARS-CoV-2 inhibitor, is [2-(((5-nitrofur-2-yl)methylidene)amino)oxy]-N-(pyrimidin-2-yl)acetamide].
Targets(IC50)	SARS-CoV
In vitro	SARS-CoV-2-IN-46 (Compound 8w) (1-10 μM) inhibits SARS-CoV-2 replication by over 50% in Calu-3 cells and demonstrates low toxicity at 250 μM over 72 hours in the same cell line.[1]

Solubility Information

Solubility	DMSO: 60 mg/mL (188.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.144 mL	15.7198 mL	31.4396 mL
5 mM	0.6288 mL	3.144 mL	6.2879 mL
10 mM	0.3144 mL	1.572 mL	3.144 mL
50 mM	0.0629 mL	0.3144 mL	0.6288 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

Caleffi GS, et al. Aurones: A Promising Scaffold to Inhibit SARS-CoV-2 Replication. J Nat Prod. 2023;86(6):1536-1549.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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