

DENV-IN-5

Chemical Properties

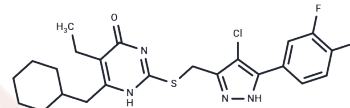
CAS No. : 2375781-06-7

Formula: C₂₃H₂₅ClF₂N₄O₅

Molecular Weight: 478.99

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	Denv-in-5 is an effective and selective dengue virus (DENV) inhibitor with EC ₅₀ values of 1.47, 9.23, 7.08, 8.91 μM for denV-I-IV and 0.1512 μM for HIV-1IIIB.
Targets(IC ₅₀)	Anti-infection,HIV Protease,DNA/RNA Synthesis,Virus Protease

Solubility Information

Solubility	DMSO: 12 mg/mL (25.05 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	2.0877 mL	10.4386 mL	20.8773 mL
5 mM	0.4175 mL	2.0877 mL	4.1755 mL
10 mM	0.2088 mL	1.0439 mL	2.0877 mL
50 mM	0.0418 mL	0.2088 mL	0.4175 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

Rui RM, et al. C₆-structural optimizations of 2-aryl-1H-pyrazole-S-DABOs: From anti-HIV to anti-DENV activity. Bioorg Chem. 2022;119:105494.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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