

DHFR-IN-22

Chemical Properties

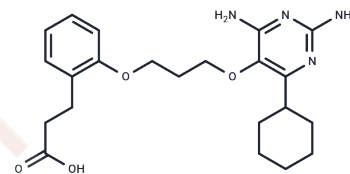
CAS No. : 2941327-87-1

Formula: C22H30N4O4

Molecular Weight: 414.5

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	DHFR-IN-22 (Compound 8) is a DHFR (Dihydrofolate Reductase) inhibitor that falls under the category of 2,4-diaminopyrimidine compounds. It demonstrates significant inhibitory activity against isolated DHFR enzyme and major nontuberculous mycobacteria (NTM) species, specifically Mycobacterium avium and Mycobacterium abscessus. The compound has an IC50 of 1.1 nM and a MIC of 1.5 µg/mL for M. abscessus, and an IC50 of 6.3 nM and a MIC of 0.1 µg/mL for M. avium, while its IC50 for human DHFR is 2100 nM. DHFR-IN-22 may be promising for developing new strategies to combat NTM infections.
Targets(IC50)	Antibacterial,Antibiotic,DHFR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4125 mL	12.0627 mL	24.1255 mL
5 mM	0.4825 mL	2.4125 mL	4.8251 mL
10 mM	0.2413 mL	1.2063 mL	2.4125 mL
50 mM	0.0483 mL	0.2413 mL	0.4825 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

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