

Glutamate-5-kinase-IN-1

Chemical Properties

CAS No. :

Formula: C₂₀H₁₈N₂O

Molecular Weight: 302.37

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	Glutamate-5-kinase-IN-1 (compound 50) is a potent G5K inhibitor that modifies the ATP binding site architecture for enzyme recognition (MIC = 4.1 μM) and has potential for anti-TB research [1].
Targets(IC50)	Others,Antibacterial
In vitro	Glutamate-5-kinase-IN-1 (compound 50) at 40 μM effectively inhibits G5K activity, with an IC ₅₀ of 22.1 μM under 10 mM L-Glu and ATP conditions. At 5, 10, and 20 μM, it shows negligible cytotoxicity in HepG2 cells. At 120 μM, it significantly increases the K _m (app) for ATP, with constant L-Glu (150 mM, 300 mM, 600 mM) and ATP (10 mM) concentrations.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3072 mL	16.536 mL	33.0721 mL
5 mM	0.6614 mL	3.3072 mL	6.6144 mL
10 mM	0.3307 mL	1.6536 mL	3.3072 mL
50 mM	0.0661 mL	0.3307 mL	0.6614 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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