

Glutamate-5-kinase-IN-2

Chemical Properties

CAS No. :

Formula: C₁₇H₁₀ClFN₂

Molecular Weight: 296.73

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-2 (compound 54) is a potent glutamate-5-kinase (G5K) inhibitor with an MIC of 4.2 μ M, exhibiting G5K inhibition by promoting conformational changes at the L-glutamate binding site. Glutamate-5-kinase-IN-2 has potential for anti-TB research [1].
Targets(IC50)	Others,Antibacterial
In vitro	Glutamate-5-kinase-IN-2 (compound 54) (40 μ M) inhibits G5K activity with an IC ₅₀ of 33 μ M at 10 mM concentrations of L-Glu and ATP [1]. Additionally, Glutamate-5-kinase-IN-2 (5, 10, 20 μ M) exhibits no significant cytotoxicity in HepG2 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3701 mL	16.8503 mL	33.7007 mL
5 mM	0.674 mL	3.3701 mL	6.7401 mL
10 mM	0.337 mL	1.685 mL	3.3701 mL
50 mM	0.0674 mL	0.337 mL	0.674 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481