

MtTMPK-IN-5

Chemical Properties

CAS No. :

Formula: C₂₁H₂₃N₅O₂

Molecular Weight: 377.44

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	MtTMPK-IN-5 (compound 17) is a highly effective inhibitor of M. tuberculosis thymidylate kinase (Mtb TMPK), demonstrating remarkable enzyme inhibitory activity with an IC ₅₀ of 34 μM. Additionally, MtTMPK-IN-5 exhibits notable activity against M. tuberculosis, with an MIC of 12.5 μM. Given its potent properties, MtTMPK-IN-5 serves as a valuable tool for tuberculosis research [1].
Targets(IC50)	Others,Antibacterial,DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6494 mL	13.2471 mL	26.4943 mL
5 mM	0.5299 mL	2.6494 mL	5.2989 mL
10 mM	0.2649 mL	1.3247 mL	2.6494 mL
50 mM	0.053 mL	0.2649 mL	0.5299 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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