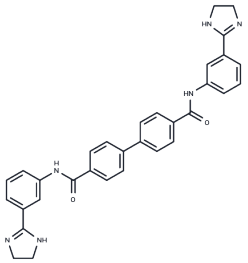
Data Sheet (Cat.No.T10586)

TargetMol

BPH-1358 free base

Chemical Properties



CAS No. : 801985-13-7

Formula: C32H28N6O2

Molecular Weight: 528.6

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	BPH-1358 (NSC50460) free base is a potent human undecaprenyl diphosphate synthase (UPPS) and farnesyl diphosphate synthase (FPPS) inhibitor (IC50s: 110 nM and 1.8 μM) and is active against S. aureus in vitro (MIC ~250 ng/mL).
Targets(IC50)	Others,Antibacterial
In vitro	BPH-1358 is the most potent inhibitor of both E. coli UPPS (EcUPPS) and S. aureus UPPS (SaUPPS) with an IC50 of 110 nM and EC50s of 300 nM and 290 nM, respectively, against E. coli and S. aureus [1].
In vivo	In an i.p. infection model with an MRSA strain, BPH-1358 is active against S. aureus (20/20 mice survived) [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8918 mL	9.4589 mL	18.9179 mL
5 mM	0.3784 mL	1.8918 mL	3.7836 mL
10 mM	0.1892 mL	0.9459 mL	1.8918 mL
50 mM	0.0378 mL	0.1892 mL	0.3784 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

Zhu W, et al. Antibacterial drug leads: DNA and enzyme multitargeting. J Med Chem. 2015 Feb 12;58(3):1215-27.
Liu YL, et al. Farnesyl diphosphate synthase inhibitors with unique ligand-binding geometries. ACS Med Chem Lett. 2015 Jan 29;6(3):349-54.

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