

Antimalarial agent 18

Chemical Properties

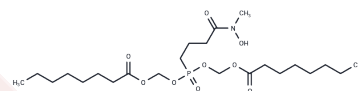
CAS No. :

Formula: C₂₃H₄₄N₂O₉P

Molecular Weight: 509.57

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	Antimalarial agent 18, a powerful antimalarial compound characterized by its electronic, highly lipophilic, and siderophoric properties, falls within the acyloxymethyl series, acting as a fosmidomycin surrogate. It effectively inhibits the non-mevalonate isoprenoid biosynthesis pathway by targeting the IspC enzyme. This compound demonstrates significant inhibitory activity against <i>P. falciparum</i> (IC ₅₀ = 50 nM) and <i>A. baumannii</i> (IC ₅₀ = 390 nM).
Targets(IC50)	Others,Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9624 mL	9.8122 mL	19.6244 mL
5 mM	0.3925 mL	1.9624 mL	3.9249 mL
10 mM	0.1962 mL	0.9812 mL	1.9624 mL
50 mM	0.0392 mL	0.1962 mL	0.3925 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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