

Antimalarial agent 27

Chemical Properties

CAS No. :

Formula: C₁₀H₁₁NNaO₅P

Molecular Weight: 279.16

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 27 (compound 11a) potently inhibits <i>P. falciparum</i> with an IC ₅₀ of 0.37 μM, targeting the parasite's 1-deoxy-D-xylulose-5-phosphate reductoisomerase (DXR) enzyme with an IC ₅₀ of 0.11 μM, indicating its mechanism of action [1].
Targets(IC50)	Parasite

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5822 mL	17.9109 mL	35.8218 mL
5 mM	0.7164 mL	3.5822 mL	7.1644 mL
10 mM	0.3582 mL	1.7911 mL	3.5822 mL
50 mM	0.0716 mL	0.3582 mL	0.7164 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481