

Antimalarial agent 1

Chemical Properties

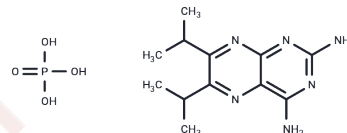
CAS No. : 84176-65-8

Formula: C₁₂H₂₁N₆O₄P

Molecular Weight: 344.31

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 1 is an effective antimalarial agent.
Targets(IC50)	Parasite
In vitro	The antimalarial index of antimalarial agent 1 is 1:40 when tested against Plasmodium gallinaceum.

Solubility Information

Solubility	DMSO: 60 mg/mL (174.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.81 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9044 mL	14.5218 mL	29.0436 mL
5 mM	0.5809 mL	2.9044 mL	5.8087 mL
10 mM	0.2904 mL	1.4522 mL	2.9044 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 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

MCCONNACHIE EW, et al. The action of 2:4-diamino-6:7-diisopropylpteridine on normal, proguanil- and sulphadiazine-resistant strains of

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