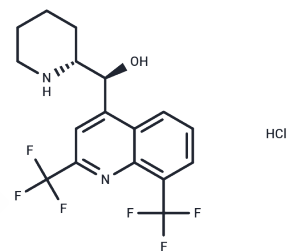


Mefloquine hydrochloride

Chemical Properties

CAS No. :	51773-92-3
Formula:	C ₁₇ H ₁₇ ClF ₆ N ₂ O
Molecular Weight:	414.77
Storage:	Store under nitrogen Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Mefloquine hydrochloride (Mefloquin hydrochloride) is a quinoline derivative used for the prevention and therapy of <i>P. falciparum</i> malaria.
Targets(IC50)	Reactive Oxygen Species,Parasite,Autophagy,Potassium Channel,ROS Kinase,SARS-CoV

Solubility Information

Solubility	Ethanol: 76 mg/mL (183.23 mM),Sonication is recommended. DMSO: 35.71 mg/mL (86.1 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 (4.82 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	2.411 mL	12.0549 mL	24.1097 mL
5 mM	0.4822 mL	2.411 mL	4.8219 mL
10 mM	0.2411 mL	1.2055 mL	2.411 mL
50 mM	0.0482 mL	0.2411 mL	0.4822 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

Fitch CD. Life Sci. 2004 Mar 5; 74(16):1957-72.

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