

Quinine

Chemical Properties

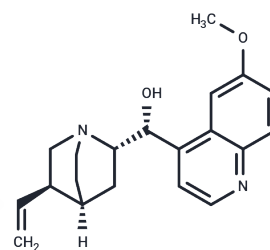
CAS No. : 130-95-0

Formula: C₂₀H₂₄N₂O₂

Molecular Weight: 324.42

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	Quinine is a natural cinchona alkaloid that has been used for centuries in the prevention and therapy of malaria. Quinine is also used for idiopathic muscle cramps. Quinine therapy has been associated with rare instances of hypersensitivity reactions which can be accompanied by hepatitis and mild jaundice.
Targets(IC50)	Anti-infection, Platelet aggregation, Parasite, Potassium Channel

Solubility Information

Solubility	DMSO: 125 mg/mL (385.3 mM), Sonication is recommended. H ₂ O: Insoluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn oil: 10 mg/mL (30.82 mM), Solution. 10% DMSO+90% (20% SBE- β -CD in Saline): < 10 mg/mL (30.82 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Saline: < 10 mg/mL (30.82 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (30.82 mM), Suspension. <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	3.0824 mL	15.4121 mL	30.8242 mL
5 mM	0.6165 mL	3.0824 mL	6.1648 mL
10 mM	0.3082 mL	1.5412 mL	3.0824 mL
50 mM	0.0616 mL	0.3082 mL	0.6165 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

Alumasa JN, et al. J Inorg Biochem. 2010 Sep 21.

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