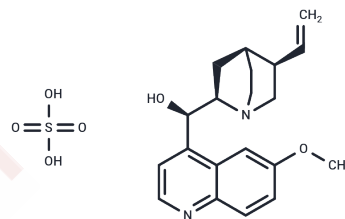


Quinine hemisulfate

Chemical Properties

CAS No. :	804-63-7
Formula:	C ₄₀ H ₅₀ N ₄ O ₈ S
Molecular Weight:	746.92
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 hemisulfate is an antiarrhythmic agent. Quinidine is a potent, orally active, selective cytochrome P450db inhibitor. Quinine hemisulfate is also a blocker of K ⁺ channel with an IC ₅₀ of 19.9 μM. Quinine hemisulfate has potential to be used for malaria research [1] [2] [3].
Targets(IC50)	Anti-infection,Others,Parasite,Potassium Channel

Solubility Information

Solubility	DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3388 mL	6.6942 mL	13.3883 mL
5 mM	0.2678 mL	1.3388 mL	2.6777 mL
10 mM	0.1339 mL	0.6694 mL	1.3388 mL
50 mM	0.0268 mL	0.1339 mL	0.2678 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

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Kristoffersen AS, Erga SR, Hamre B, Frette Ø. Testing Fluorescence Lifetime Standards using Two-Photon Excitation and Time-Domain Instrumentation: Fluorescein, Quinine Sulfate and Green Fluorescent Protein. *J Fluoresc.* 2018 Sep;28(5):1065-1073. doi: 10.1007/s10895-018-2270-z. Epub 2018 Jul 26. PubMed PMID: 30046998; PubMed Central PMCID: PMC6153725.

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