

## Quinidine sulfate dihydrate

### Chemical Properties

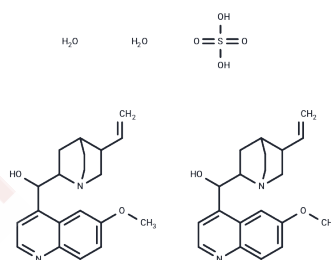
CAS No. : 6591-63-5

Formula: C<sub>40</sub>H<sub>54</sub>N<sub>4</sub>O<sub>10</sub>S

Molecular Weight: 782.9

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	Quinidine sulfate dihydrate (Pitayine Sodium) is a potent and selective cytochrome P450db inhibitor
Targets(IC50)	Apoptosis,Parasite,Cytochromes P450,Potassium Channel,Sodium Channel

### Solubility Information

Solubility	H <sub>2</sub> O: 9 mg/mL (11.5 mM),Sonication is recommended. DMSO: 100 mg/mL (127.73 mM),Sonication is recommended. Ethanol: 100 mg/mL (127.73 mM),Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2773 mL	6.3865 mL	12.773 mL
5 mM	0.2555 mL	1.2773 mL	2.5546 mL
10 mM	0.1277 mL	0.6387 mL	1.2773 mL
50 mM	0.0255 mL	0.1277 mL	0.2555 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

Tsuruo T , Iida H , Kitatani Y , et al. Effects of Quinidine and Related Compounds on Cytotoxicity and Cellular Accumulation of Vincristine and Adriamycin in Drugresistant Tumor Cells[J]. Cancer Research, 1984, 44(10):4303-4307.

Hanna G M , Lau-Cam C A . Application of  $^1$ H-Nuclear Magnetic Resonance Spectroscopic Method for Quinidine to Simultaneous Determination of Quinidine and Dihydroquinidine in Quinidine Sulfate Tablets[J]. Journal of the Association of Official Analytical Chemists(6):6.

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