

Quinidine

Chemical Properties

CAS No. : 56-54-2

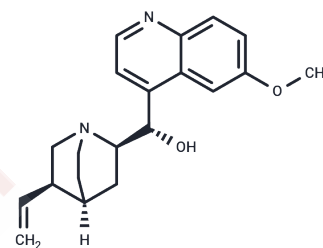
Formula: C₂₀H₂₄N₂O₂

Molecular Weight: 324.42

Keep away from direct sunlight

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 is a stereoisomer of the antimalarial agent quinine and a class Ia antiarrhythmic agent. for the treatment of abnormal heart rhythms and also malaria.
Targets(IC50)	Apoptosis,Parasite,Cytochromes P450,Potassium Channel
In vitro	Quinidine blocks the voltage-gated sodium (Nav) channel Nav1.5 in a use-dependent manner.It decreases the amplitude and duration of action potentials in isolated canine ventricular myocytes[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (154.12 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 (6.16 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	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

Salata J J , Wasserstrom J A . Effects of quinidine on action potentials and ionic currents in isolated canine ventricular myocytes[J]. Circulation Research, 1988, 62(2):324-337.

Guentert T W , Upton R A , Holford N H , et al. Gastrointestinal absorption of quinidine from some solutions and commercial tablets[J]. Journal of Pharmacokinetics & Biopharmaceutics, 1980, 8(3):243-255.

Benton R E , Sale M , Flockhart D A , et al. Greater quinidine-induced QTc interval prolongation in women[J]. Clinical pharmacology and therapeutics, 2000, 67(4):413.

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