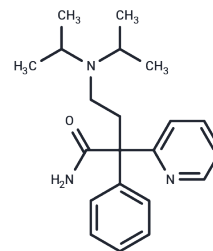


Disopyramide

Chemical Properties

CAS No. :	3737-09-5
Formula:	C ₂₁ H ₂₉ N ₃ O
Molecular Weight:	339.47
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	Disopyramide (Triombrin) is a class I anti-arrhythmic agent (one that interferes directly with the depolarization of the cardiac membrane and thus serves as a membrane-stabilizing agent) with a depressant action on the heart similar to that of guanidine. It also possesses some anticholinergic and local anesthetic properties.
Targets(IC50)	AChR,Potassium Channel,Sodium Channel

Solubility Information

Solubility	DMSO: 50 mg/mL (147.29 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: 5 mg/mL (14.73 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	2.9458 mL	14.7288 mL	29.4577 mL
5 mM	0.5892 mL	2.9458 mL	5.8915 mL
10 mM	0.2946 mL	1.4729 mL	2.9458 mL
50 mM	0.0589 mL	0.2946 mL	0.5892 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

Sugao M, et al. J Cardiovasc Pharmacol. 2005 Jun;45(6):545-9.

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