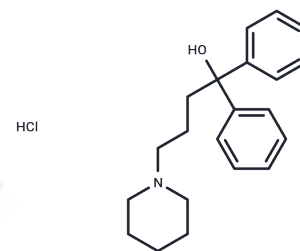


Diphenidol hydrochloride

Chemical Properties

CAS No. :	3254-89-5
Formula:	C ₂₁ H ₂₈ ClNO
Molecular Weight:	345.91
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	Diphenidol hydrochloride (Difenidol hydrochloride), a muscarinic antagonist, is employed as an anti-vertigo and as an antiemetic drug.
Targets(IC50)	AChR,Sodium Channel

Solubility Information

Solubility	Ethanol: 34 mg/mL (98.29 mM),Sonication is recommended. DMSO: 55 mg/mL (159 mM),Sonication is recommended. H ₂ O: 11 mg/mL (31.8 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 (5.78 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	2.8909 mL	14.4546 mL	28.9093 mL
5 mM	0.5782 mL	2.8909 mL	5.7819 mL
10 mM	0.2891 mL	1.4455 mL	2.8909 mL
50 mM	0.0578 mL	0.2891 mL	0.5782 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

Leung YM, et al. Pharmacol Rep. 2012;64(3):739-44.

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