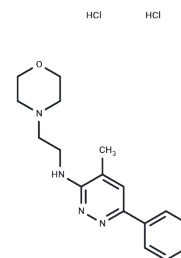


Minaprine dihydrochloride

Chemical Properties

CAS No. :	25953-17-7
Formula:	C ₁₇ H ₂₄ Cl ₂ N ₄ O
Molecular Weight:	371.3
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	Minaprine dihydrochloride is a reversible MAO-A inhibitor; It weakly inhibit acetylcholinesterase. Minaprine dihydrochloride is an antidepressant for treatment of depression.
Targets(IC50)	MAO, Monoamine Oxidase

Solubility Information

Solubility	DMSO: 40.82 mg/mL (109.94 mM), Sonication is recommended. H ₂ O: 125 mg/mL (336.65 mM) (< 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 (5.39 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	2.6932 mL	13.4662 mL	26.9324 mL
5 mM	0.5386 mL	2.6932 mL	5.3865 mL
10 mM	0.2693 mL	1.3466 mL	2.6932 mL
50 mM	0.0539 mL	0.2693 mL	0.5386 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

Contreras JM, et al. Aminopyridazines as acetylcholinesterase inhibitors. J Med Chem. 1999 Feb 25;42(4):730-41.
Kan JP, et al. Effect of the antidepressant minaprine on both forms of monoamine oxidase in the rat. Biochem Pharmacol. 1986 Mar 15;35(6):973-8.

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