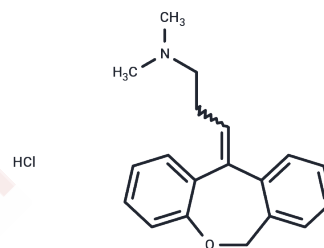


Doxepin hydrochloride

Chemical Properties

CAS No. :	1229-29-4
Formula:	C ₁₉ H ₂₂ ClNO
Molecular Weight:	315.84
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	Doxepin hydrochloride (Aponal) is a dibenzoxepin tricyclic compound. It displays a range of pharmacological actions including maintaining adrenergic innervation. Its mechanism of action is not fully understood, but it appears to block reuptake of monoaminergic neurotransmitters into presynaptic terminals. It also possesses anticholinergic activity and modulates antagonism of histamine H(1)- and H(2)-receptors.
Targets(IC50)	5-HT Receptor, Adrenergic Receptor, AChR, Norepinephrine, Histamine Receptor, Cytochromes P450, Dopamine Receptor

Solubility Information

Solubility	DMSO: 60 mg/mL (189.97 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 (6.33 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	3.1662 mL	15.8308 mL	31.6616 mL
5 mM	0.6332 mL	3.1662 mL	6.3323 mL
10 mM	0.3166 mL	1.5831 mL	3.1662 mL
50 mM	0.0633 mL	0.3166 mL	0.6332 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

Ehlert FJ, et al. J Pharmacol Exp Ther. 1990 Apr;253(1):13-9.

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