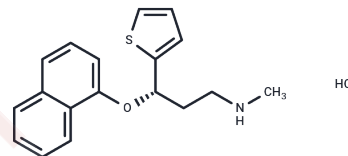


Duloxetine hydrochloride

Chemical Properties

CAS No. :	136434-34-9
Formula:	C ₁₈ H ₂₀ ClNOS
Molecular Weight:	333.88
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	Duloxetine hydrochloride ((S)-Duloxetine hydrochloride) is a thiophene derivative and selective neurotransmitter uptake inhibitor for serotonin and noradrenaline (SNRI). It is an antidepressant agent and anxiolytic, also used for treating pain in patients with diabetes mellitus and fibromyalgia.
Targets(IC50)	5-HT Receptor, Norepinephrine, Dopamine Receptor, Serotonin Transporter

Solubility Information

Solubility	DMSO: 250 mg/mL (748.77 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), (< 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 (5.99 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	2.9951 mL	14.9754 mL	29.9509 mL
5 mM	0.599 mL	2.9951 mL	5.9902 mL
10 mM	0.2995 mL	1.4975 mL	2.9951 mL
50 mM	0.0599 mL	0.2995 mL	0.599 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

Chen F, et al. Eur Neuropsychopharmacol. 2005 Mar; 15(2):193-8.

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