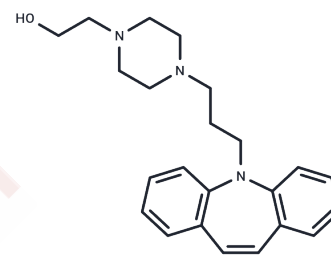


Opipramol

Chemical Properties

CAS No. :	315-72-0
Formula:	C ₂₃ H ₂₉ N ₃ O
Molecular Weight:	363.5
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	Opipramol (Ensidon) is a compound with antidepressant activity that attenuates cocaine-seeking behavior in a rat model of self-administration. Opipramol is a sigma (σ) receptor agonist with anxiolytic activity and may be used in the study of neurological disorders.
Targets(IC ₅₀)	Sigma receptor
In vitro	Opipramol potently binds to the sigma recognition site with a K _i value of 50 nM. Opipramol also inhibits the uptake of [3H] dopamine in crude synaptic preparations with an IC ₅₀ value of 5.5 μ M. [1]
In vivo	Opipramol has been shown to significantly increase dopamine release in vivo by intraperitoneal injection (dose range 5-50 mg/kg). [2]

Solubility Information

Solubility	DMSO: 80 mg/mL (220.08 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: 3.3 mg/mL (9.08 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	2.751 mL	13.7552 mL	27.5103 mL
5 mM	0.5502 mL	2.751 mL	5.5021 mL
10 mM	0.2751 mL	1.3755 mL	2.751 mL
50 mM	0.055 mL	0.2751 mL	0.5502 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

Möller HJ, et al. Opipramol for the treatment of generalized anxiety disorder: a placebo-controlled trial including an alprazolam-treated group. *J Clin Psychopharmacol.* 2001 Feb;21(1):59-65.

Rao TS, et al. Neurochemical characterization of dopaminergic effects of opipramol, a potent sigma receptor ligand, in vivo. *Neuropharmacology.* 1990 Dec;29(12):1191-7.

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