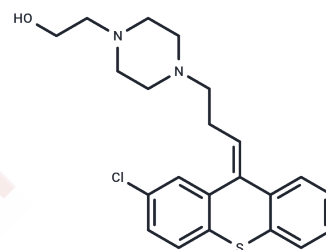


Zuclophenthixol

Chemical Properties

CAS No. :	53772-83-1
Formula:	C ₂₂ H ₂₅ ClN ₂ O ₂ S
Molecular Weight:	400.96
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	Zuclophenthixol (cis-Clophenthixol) is a thioxanthene with therapeutic actions similar to the phenothiazine antipsychotics. It is an antagonist at D1 and D2 dopamine receptors.
Targets(IC50)	Dopamine Receptor

Solubility Information

Solubility	DMSO: 250 mg/mL (623.5 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: 5 mg/mL (12.47 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	2.494 mL	12.4701 mL	24.9401 mL
5 mM	0.4988 mL	2.494 mL	4.988 mL
10 mM	0.2494 mL	1.247 mL	2.494 mL
50 mM	0.0499 mL	0.2494 mL	0.4988 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

- Khalifa AE: Zuclopenthixol facilitates memory retrieval in rats: possible involvement of noradrenergic and serotonergic mechanisms. *Pharmacol Biochem Behav.* 2003 Jul;75(4):755-62.
- Fond G, Macgregor A, Tamouza R, Hamdani N, Meary A, Leboyer M, Dubremetz JF: Comparative analysis of anti-toxoplasmic activity of antipsychotic drugs and valproate. *Eur Arch Psychiatry Clin Neurosci.* 2013 Jun 15.
- Jayakody K, Gibson RC, Kumar A, Gunadasa S: Zuclopenthixol acetate for acute schizophrenia and similar serious mental illnesses. *Cochrane Database Syst Rev.* 2012 Apr 18;4:CD20200525. doi: 10.12002/14651858.CD20200525.pub3.
- Nielsen MK, Johansen SS: Simultaneous determination of 25 common pharmaceuticals in whole blood using ultra-performance liquid chromatography-tandem mass spectrometry. *J Anal Toxicol.* 2012 Sep;36(7):497-506. doi: 10.1093/jat/bks054. Epub 2012 Jun 19.
- Hood S, Orr K, Bennett L, Davies S: Severe laryngeal dystonia in a patient receiving zuclopenthixol "Acuphase" and fluoxetine. *Australas Psychiatry.* 2010 Apr;18(2):174-6. doi: 10.3109/103198560903473686

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481