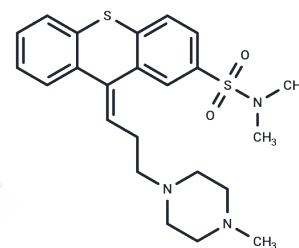


(Z)-Thiothixene

Chemical Properties

CAS No. : 3313-26-6
Formula: C₂₃H₂₉N₃O₂S₂
Molecular Weight: 443.63
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	(Z)-Thiothixene (Thiothixene) is an antagonist of serotonergic receptor.
Targets(IC50)	5-HT Receptor,Serotonin Transporter
In vitro	(Z)-Thiothixene promotes cell survival and plasticity. (Z)-Thiothixene inhibits cell death, especially when toxic substances are exposed to cells including neuronal cells [1].

Solubility Information

Solubility	DMSO: 4.44 mg/mL (10.01 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: 1 mg/mL (2.25 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	2.2541 mL	11.2707 mL	22.5413 mL
5 mM	0.4508 mL	2.2541 mL	4.5083 mL
10 mM	0.2254 mL	1.1271 mL	2.2541 mL
50 mM	0.0451 mL	0.2254 mL	0.4508 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

Illana Gozes, et al. Novel compounds and methods for inhibiting cell death. US 20150141345 A1.

Severin G. Comprehensive high-performance liquid chromatographic methodology for the determination of thiothixene in bulk drug, finished product, and dissolution testing samples. J Pharm Sci. 1987 Mar;76(3):231-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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