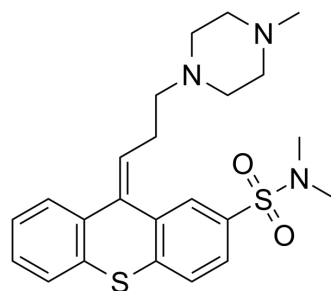


(Z)-Thiothixene

Cat. No.:	HY-108324		
CAS No.:	3313-26-6		
Molecular Formula:	C ₂₃ H ₂₉ N ₃ O ₂ S ₂		
Molecular Weight:	443.63		
Target:	5-HT Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 10 mg/mL (22.54 mM; ultrasonic and warming and heat to 60°C)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (2.25 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (2.25 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (2.25 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	(Z)-Thiothixene is an antagonist of serotonergic receptor extracted from patent US 20150141345 A1.
IC₅₀ & Target	serotonin
In Vitro	(Z)-Thiothixene is capable of promoting cell survival and/or plasticity, and/or inhibiting cell death, especially when a toxic agent is exposed to the cells, including neuronal cells ^[1] . (Z)-Thiothixene is a Z (cis) isomer of thiothixene, as well as synthetic precursor and degradant ^[2] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

[2]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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