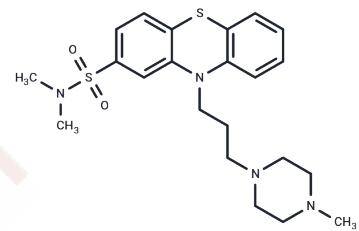


Thiopropazine

Chemical Properties

CAS No. :	316-81-4
Formula:	C22H30N4O2S2
Molecular Weight:	446.63
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Thiopropazine (RP 7843) is an orally effective antipsychotic also used as a tranquilizer and antiemetic for the treatment of schizophrenia and the manic phase of bipolar disorder, acting as a histamine and adrenergic receptor blocker.
Targets(IC50)	Adrenergic Receptor,Histamine Receptor,Dopamine Receptor
In vitro	Thiopropazine (5 mg/kg) pretreatment in rats significantly increased ³ H-dopamine synthesis and release in striatal slices (by 88% and 49%, respectively)[1].

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble), DMSO: 10 mg/mL (22.39 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.239 mL	11.1949 mL	22.3899 mL
5 mM	0.4478 mL	2.239 mL	4.478 mL
10 mM	0.2239 mL	1.1195 mL	2.239 mL
50 mM	0.0448 mL	0.2239 mL	0.4478 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

Cheramy A, Besson MJ, Glowinski J. Increased release of dopamine from striatal dopaminergic terminals in the rat after treatment with a neuroleptic: Thioproperazine. *Eur J Pharmacol.* 1970 May;10(2):206-14.

Marois G, Henrotte JG, Elie C, Franck G. [Changes in plasma prolactin and magnesium in male rats treated with Thioproperazine and/or bromocriptine]. *Ann Endocrinol (Paris).* 1985;46(6):399-405. French. PubMed PMID: 2873785.

Lechin F, van der Dijs B, Insausti CL, Gómez F. Treatment of ulcerative colitis with Thioproperazine. *J Clin Gastroenterol.* 1982 Oct;4(5):445-9. PubMed PMID: 6129273.

Marois G. [Inhibition of nidation in mice by modification of the environment and pheromones. Re-establishment by prolactin and Thioproperazine]. *Ann Endocrinol (Paris).* 1982;43(1):41-52. French. PubMed PMID: 6127981.

Lechin F, van der Dijs B, Gómez F, Acosta E, Arocha L. On the use of clonidine and Thioproperazine in a woman with Gilles de la Tourette's disease. *Biol Psychiatry.* 1982 Jan;17(1):103-8. PubMed PMID: 6120723.

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