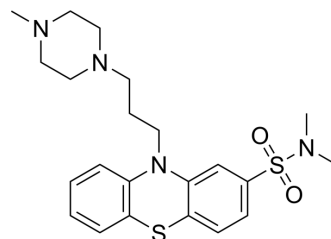


Thiopropazine

Cat. No.:	HY-A0151		
CAS No.:	316-81-4		
Molecular Formula:	C ₂₂ H ₃₀ N ₄ O ₂ S ₂		
Molecular Weight:	446.63		
Target:	Dopamine 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 : 12.5 mg/mL (27.99 mM); ultrasonic and warming and heat to 70°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2390 mL	11.1949 mL	22.3899 mL
	5 mM	0.4478 mL	2.2390 mL	4.4780 mL
	10 mM	0.2239 mL	1.1195 mL	2.2390 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Thiopropazine (RP 7843) is an orally active antipsychotic agent with calming, antiemetic activity. Thiopropazine is effective in promoting the release of dopamine in rat striatum. Thiopropazine can be used in studies of schizophrenia and bipolar disorder^[1].

In Vivo

Thiopropazine (5 mg/kg; i.p.; single) increases accumulation of dopamine in rat striatum^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male charles river rats (200-250 g) ^[1] .
Dosage:	5 mg/kg
Administration:	Intraperitoneal injection; single.
Result:	Markedly decreased dopamine levels (26%), and accelerated synthesis and utilization of dopamine in the striatum (dopamine specific activity was enhanced 250%).

REFERENCES

[1]. Cheramy A, et al. Increased release of dopamine from striatal dopaminergic terminals in the rat after treatment with a neuroleptic: thiothopazine. Eur J Pharmacol. 1970 May;10(2):206-14.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA