Thioproperazine

Cat. No.: HY-A0151

CAS No.: 316-81-4

Molecular Formula: $C_{22}H_{30}N_4O_2S_2$

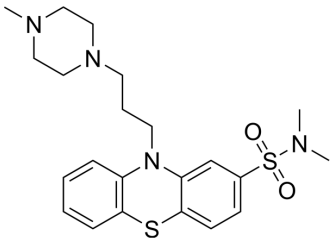
Molecular Weight: 446.63

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 / Mass / Concentration	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

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

In Vivo

Thioproperazine (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 dopane from striatal dopaminergic terminals in the rat after treatment with a neuroleptic: thioproperazine. Eur J Pharmacol. 1970 May;10(2):206-14.

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