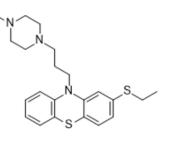
Thiethylperazine

MedChemExpress

®

Cat. No.:	HY-B1794	
CAS No.:	1420-55-9	`Ņ∕
Molecular Formula:	C ₂₂ H ₂₉ N ₃ S ₂	
Molecular Weight:	399.62	
Target:	Dopamine Receptor; Histamine Receptor; Bacterial; Amyloid- β	
Pathway:	GPCR/G Protein; Neuronal Signaling; Immunology/Inflammation; Anti-infection	
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)	



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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5024 mL	12.5119 mL	25.0238 mL
		5 mM	0.5005 mL	2.5024 mL	5.0048 mL
		10 mM	0.2502 mL	1.2512 mL	2.5024 mL

BIOLOGICAL ACTIV	ТҮ		
Description	Thiethylperazine, a phenothiazine derivate, is an orally active and potent dopamine D2-receptor and histamine H1-receptor antagonist. Thiethylperazine is also a selective ABCC1activator that reduces amyloid-β (Aβ) load in mice. Thiethylperazine has anti-emetic, antipsychotic and antimicrobial effects ^{[1][2][3]} .		
IC ₅₀ & Target	D ₂ Receptor H ₁ Receptor		
In Vitro	Thiethylperazine can enhance the antibiotic (Vancomycin) activity at a concentration as low as 2 µg/mL. Thiethylperazine inhibits Vancomycin-sensitive E. faecalis ATCC 29212, Vancomycin-resistant E. faecalis ATCC 51299 and vancomycin-resistant E. faecalis (VREF) isolates with MIC values of 8 µg/mL, 16 µg/mL and 8 µg/mL, respectively ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
In Vivo	Thiethylperazine (3 mg/kg; intramuscular injection; twice daily; for 30 days) significantly reduces Aβ42 levels in young APP/PS1 mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

Animal Model:	Young A β precursor protein (APPswe) and mutant presenilin-1 (PS1) (APP/PS1) mice
Dosage:	3 mg/kg
Administration:	Intramuscular injection; twice daily; for 30 days
Result:	Significantly reduced Aβ42 levels in APP/PS1 mice.

REFERENCES

[1]. Czeizel AE, et al. Case-control study of teratogenic potential of thiethylperazine, an anti-emetic drug. BJOG. 2003 May;110(5):497-9.

[2]. Krohn M, et al. Cerebral amyloid-β proteostasis is regulated by the membrane transport protein ABCC1 in mice. J Clin Invest. 2011 Oct;121(10):3924-31.

[3]. Rahbar M, et al. Enhancement of vancomycin activity by phenothiazines against vancomycin-resistant Enterococcus faecium in vitro. Basic Clin Pharmacol Toxicol. 2010 Aug;107(2):676-9.

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

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