Thiethylperazine dimaleate

HY-B1794A	`N∕
1179-69-7	Ň
C ₃₀ H ₃₇ N ₃ O ₈ S ₂	2
631.76	
Dopamine Receptor; Histamine Receptor; Bacterial; Amyloid- β	S∼s∼
GPCR/G Protein; Neuronal Signaling; Immunology/Inflammation; Anti-infection	HO, O _ H
4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	ОН
	 1179-69-7 C₃₀H₃₇N₃O₈S₂ 631.76 Dopamine Receptor; Histamine Receptor; Bacterial; Amyloid-β GPCR/G Protein; Neuronal Signaling; Immunology/Inflammation; Anti-infection 4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture

SOLVENT & SOLUBILITY

/itro DMSO	1 - 2	97.86 mM; ultrasonic and warming a		1	1
		Solvent Mass Concentration	1 mg	5 mg	10 mg
Prepa Stock	ring Solutions	1 mM	1.5829 mL	7.9144 mL	15.8288 mL
		5 mM	0.3166 mL	1.5829 mL	3.1658 mL
		10 mM	0.1583 mL	0.7914 mL	1.5829 mL

BIOLOGICAL ACTIV			
Description	Thiethylperazine dimaleate, a phenothiazine derivate, is an orally active and potent dopamine D2-receptor and histamine H1-receptor antagonist. Thiethylperazine dimaleate is also a selective ABCC1activator that reduces amyloid-β (Aβ) load in mice. Thiethylperazine dimaleate has anti-emetic, antipsychotic and antimicrobial effects ^{[1][2][3]} .		
IC₅₀ & Target	D ₂ Receptor H ₁ Receptor		
In Vitro	Thiethylperazine could 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; young APP/PS1 mice) treatment significantly reduces Aβ42 levels in APP/PS1 mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		

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Product Data Sheet



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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