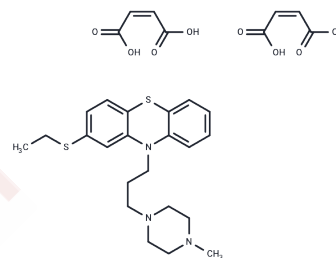


Thiethylperazine dimaleate

Chemical Properties

CAS No. : 1179-69-7
 Formula: C₃₀H₃₇N₃O₈S₂
 Molecular Weight: 631.76
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.



Biological Description

Description	Thiethylperazine dimaleate (Thiethylperazine maleate) is an antagonist of the D2 receptor and H1 receptor. Thiethylperazine dimaleate is an activator of ABCC1 and possesses antimicrobial, anti-emetic, and antipsychotic effects.
Targets(IC50)	Beta Amyloid, Antibacterial, ABC Transporter, Histamine Receptor, Dopamine Receptor
In vitro	Thiethylperazine dimaleate dimaleate is an antagonist of the D2 receptor and H1 receptor. Thiethylperazine dimaleate dimaleate is an activator of ABCC1 and possesses antimicrobial, anti-emetic, and antipsychotic effects[2].
In vivo	In APP/PS1 mice, Thiethylperazine dimaleate (3 mg/kg; intramuscular injection) causes a significant reduction of Aβ42 levels[2].

Solubility Information

Solubility	DMSO: 50 mg/mL (79.14 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0317 mL	0.1583 mL	0.3166 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

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

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.

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.

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