

Trimipramine maleate

Chemical Properties

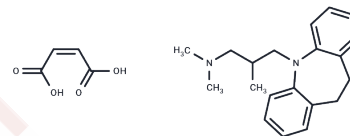
CAS No. : 521-78-8

Formula: C₂₄H₃₀N₂O₄

Molecular Weight: 410.51

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	Trimipramine maleate (Surmontil maleate) appears to inhibit serotonin transport and norepinephrine uptake by nerve terminals. This increases available norepinephrine or serotonin and prolongs its action. Trimipramine Maleate is the maleate salt form of trimipramine, a tricyclic secondary amine of the dibenzazepine class, with an antidepressant property.
Targets(IC50)	5-HT Receptor, Antibacterial, Adrenergic Receptor, Norepinephrine, Histamine Receptor, Dopamine Receptor

Solubility Information

Solubility	DMSO: 250 mg/mL (609 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.87 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.436 mL	12.180 mL	24.3599 mL
5 mM	0.4872 mL	2.436 mL	4.872 mL
10 mM	0.2436 mL	1.218 mL	2.436 mL
50 mM	0.0487 mL	0.2436 mL	0.4872 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

Diamond M, et al. Eur Neuropsychopharmacol. 2006 Oct;16(7):481-90.

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