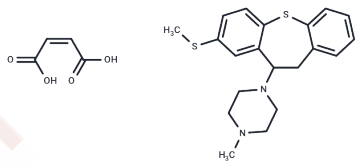
Data Sheet (Cat.No.T4375)

TargetMol

Methiothepin maleate

Chemical Properties



CAS No. : 19728-88-2

Formula: C24H28N2O4S2

Molecular Weight: 472.62

Storage: Store at low temperature
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	Methiothepin maleate (Metitepine) is a 5-HT1, 5-HT6, 5-HT7 serotonin receptor antagonist, which blocks serotonin autoreceptors.
Targets(IC50)	5-HT Receptor
In vivo	The intracerebroventricular administration of aftin-4 (3-20 nmol) increased Aβ1-42, but not Aβ1-40, content in the mouse hippocampus, between 5 and 14 days after injection. Aftin-4 injection increased lipid peroxidation levels in the hippocampus, an index of oxidative stress.

Solubility Information

Solubility	DMSO: 100 mM,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1159 mL	10.5793 mL	21.1586 mL
5 mM	0.4232 mL	2.1159 mL	4.2317 mL
10 mM	0.2116 mL	1.0579 mL	2.1159 mL
50 mM	0.0423 mL	0.2116 mL	0.4232 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

Knight J A, etal. Pharmacological analysis of the novel, rapid, and potent inactivation of the human 5-Hydroxytryptamine7 receptor by risperidone, 9-OH-Risperidone, and other inactivating antagonists[J]. Molecular Pharmacology, 2009, 75(2):374-380.

Rizviä E, etal. Atypical sympathomimetic drug lerimazoline mediates contractile effects in rat aorta predominantly by 5-HT2A receptors[J]. Bosn J Basic Med Sci, 2017, 17(3):194-202.

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