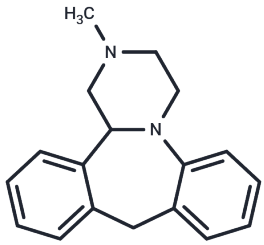
Data Sheet (Cat.No.T21428)

TargetMol

Mianserin

Chemical Properties



CAS No. : 24219-97-4

Formula: C18H20N2

Molecular Weight: 264.36

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	Mianserin, an H1 receptor reverse agonist, is a psychoactive compound in the tetracyclic antidepressant (TeCA) treatment family. Mianserin has antidepressant, antianxiety, antiemetic, hypotrophic, hypnotic and antihistamine effects, and can be used as a combination of norepinephrine and specific serotonin to treat depression.
Targets(IC50)	Histamine Receptor
In vivo	The atypical antidepressant mianserin, administered at doses of 1, 5 and 10 mg/kg SC, dose-dependently increased up to about 6 times extracellular dopamine in the medial prefrontal cortex of the rat. Mianserin failed to modify extracellular dopamine in the nucleus accumbens. Mianserin also dose-dependently increased extracellular noradrenaline in the prefrontal cortex[1].

Solubility Information

Solubility	H2O: Insoluble, DMSO: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7827 mL	18.9136 mL	37.8272 mL
5 mM	0.7565 mL	3.7827 mL	7.5654 mL
10 mM	0.3783 mL	1.8914 mL	3.7827 mL
50 mM	0.0757 mL	0.3783 mL	0.7565 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

Blier P, et al. Effects of the two antidepressant drugs mianserin and indalpine on the serotonergic system: single-cell studies in the rat. Psychopharmacology (Berl). 1984;84(2):242-249.
Duan Z, Zhou Z, Lu F, et al. Antitumor activity of mianserin (a tetracyclic antidepressant) primarily driven by the inhibition of SLC1A5-mediated glutamine transport. Investigational New Drugs. 2022: 1-13
Tanda G, et al. Mianserin markedly and selectively increases extracellular dopamine in the prefrontal cortex as compared to the nucleus accumbens of the rat. Psychopharmacology (Berl). 1996;123(2):127-130.
Leinonen E, Koponen H, Lepola U. Serum mianserin and ageing. Prog Neuropsychopharmacol Biol Psychiatry. 1994 Sep;18(5):833-45. Review. PubMed PMID: 7972855.
Tiraboschi P. [Mianserin]. Medicina (Firenze). 1988 Jul-Sep;8(3):351-3. Review. Italian. PubMed PMID: 3068469.

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