# Data Sheet (Cat.No.T0783)



## Mianserin hydrochloride

#### **Chemical Properties**

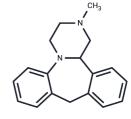
CAS No.: 21535-47-7

Formula: C18H21ClN2

Molecular Weight: 300.83

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



### **Biological Description**

Description	Mianserin hydrochloride (Org GB 94) is a tetracyclic compound with antidepressant properties that blocks alpha-adrenergic, histamine H1, and certain serotonin recept it may cause drowsiness and hematological issues.			
Targets(IC50)	5-HT Receptor,Opioid Receptor,Adrenergic Receptor,Histamine Receptor,Dopamine Receptor			
In vitro	Mianserin dose-dependently elevates extracellular norepinephrine levels in the prefrontal cortex with minimal impact on the reuptake of norepinephrine in the rat cerebral cortex, due to its blockade of presynaptic inhibitory α2-adrenergic receptors and induction of regeneration-mediated release enhancement. In neonatal 6-OHDA-lesioned rats, mianserin attenuates the effects of SKF38393 and M-CPP, indicating that the actions of dopamine receptor agonists are mediated through the 5-HT neurochemical system. Additionally, in the medial prefrontal cortex of neonatal 6-OHDA-lesioned rats, 10 mg/kg S.C. Mianserin increased extracellular dopamine approximately 6-fold.			
In vivo	In elevated plus-maze experiments, Eltoprazine and Mianserin exhibit opposited Eltoprazine induces anxiogenic-like behavior, while Mianserin triggers an anxiogense. Mianserin leads to a decreased number of these sites, whereas Eltopresults in an increase. Additionally, a subcutaneous dose of 2 mg/kg Mianserin produces a significant statistical increase in dopamine levels, exceeding 30% whereas to saline.			

## **Solubility Information**

Solubility	H2O: 99.7 mM,Sonication is recommended.	
	DMSO: 4.23 mg/mL (14.06 mM), Sonication is recommended.	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

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#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	3.3241 mL	16.6207 mL	33.2414 mL
5 mM	0.6648 mL	3.3241 mL	6.6483 mL
10 mM	0.3324 mL	1.6621 mL	3.3241 mL
50 mM	0.0665 mL	0.3324 mL	0.6648 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.

#### Reference

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