

Certificate of Analysis

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Product Name: Mianserin hydrochloride

Catalog No.: 0997

Batch No.: 4

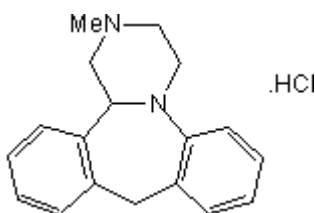
CAS Number: 21535-47-7

EC Number: 244-426-7

IUPAC Name: 1,2,3,4,10,14b-Hexahydro-2-methylbenzo[c,f]pyrazino[1,2-a]azepine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₂₀N₂·HCl
Batch Molecular Weight: 300.83
Physical Appearance: White solid
Solubility: water to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.65 (Dichloromethane:Ethanol:Ammonia soln. [10:1:0.1])
Melting Point: At 264°C(dec)
HPLC: Shows 100% purity
¹H NMR: Consistent with structure

	Carbon Hydrogen Nitrogen		
	Carbon	Hydrogen	Nitrogen
Theoretical	71.87	7.04	9.31
Found	71.79	7.12	9.32

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Non-selective 5-HT₂ receptor antagonist (K_i values are 0.0080 and 0.0081 μM for human 5-HT_{2A} and 5-HT_{2C} receptors expressed in HEK293 cells respectively). Has moderate affinity for 5-HT₆. Antidepressant.

Physical and Chemical Properties:

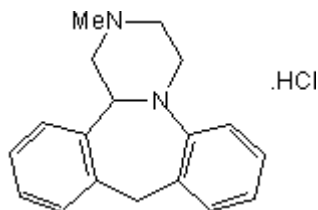
Batch Molecular Formula: C₁₈H₂₀N₂.HCl

Batch Molecular Weight: 300.83

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Merck Index **12** 6260.

Leonard (1982) On the mode of action of mianserin. *Adv.Biochem.Psychopharmacol.* **31** 301. PMID: 6282060.

Hoyer et al (1994) VII. International Union of Pharmacology classification of receptors for 5-hydroxytryptamine (serotonin). *Pharmacol.Rev.* **46** 157. PMID: 7938165.

Jensen et al (2013) Design, synthesis, and pharmacological characterization of *N*- and *O*-substituted 5,6,7,8-tetrahydro-4*H*-isoxazolo[4,5-*d*]azepin-3-ol analogues: novel 5-HT_{2A}/5-HT_{2C} receptor agonists with pro-cognitive properties. *J.Med.Chem.* **56** 1211. PMID: 23301527.

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