

Product Name: SCH 23390 hydrochloride

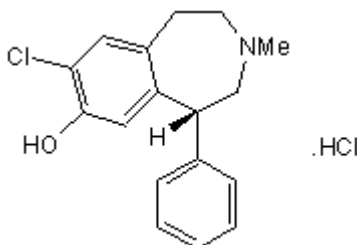
Catalog No.: 0925 **Batch No.:** 15

CAS Number: 125941-87-9

IUPAC Name: (R)-(+)-7-Chloro-8-hydroxy-3-methyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₈ClNO.HCl
Batch Molecular Weight: 324.24
Physical Appearance: White solid
Solubility: water to 100 mM with gentle warming
 ethanol to 50 mM
 DMSO to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.33 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])
HPLC: Shows 100% purity
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +30.8 (Concentration = 1, Solvent = DMF)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.97	5.91	4.32
Found	62.95	5.83	4.41

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Description:

Potent dopamine receptor antagonist (K_i values are 0.2 nM and 0.3 nM at D_1 and D_5 receptor sub-types respectively). Also an agonist at 5-HT_{1C} and 5-HT_{2C} receptors in vitro (K_i values are 6.3 nM and 9.3 nM respectively).

Physical and Chemical Properties:

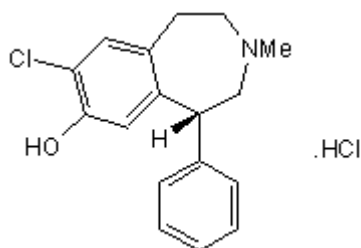
Batch Molecular Formula: C₁₇H₁₈ClNO.HCl

Batch Molecular Weight: 324.24

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 mM with gentle warming
ethanol to 50 mM
DMSO to 100 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:

Briggs et al (1991) Activation of the 5-HT_{1C} receptor expressed in *Xenopus* oocytes by the benzazepines SCH 23390 and SKF 38393. *Br.J.Pharmacol.* **104** 1038. PMID: 1687364.

Millan et al (2001) The "selective" dopamine D₁ receptor antagonist, SCH23390, is a potent and high efficacy agonist against cloned human serotonin_{2C} receptors. *Psychopharmacology* **156** 58. PMID: 11465634.

Bourne et al (2001) SCH 23390: The first selective dopamine D₁-like receptor antagonist. *CNS Drug Rev.* **7** 399. PMID: 11830757.

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