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## DATASHEET

### SCH 23390 hydrochloride

#### Product overview

|                          |  |
|--------------------------|--|
| <b>Name</b>              | SCH 23390 hydrochloride                                    |
| <b>Cat No</b>            | HB1643   |
| <b>Alternative names</b> | (R)-(+)-SCH 23390 hydrochloride                            |
| <b>Biological action</b> | Antagonist   |
| <b>Purity</b>            | >98%   |
| <b>Description</b>       | Potent, selective D <sub>1</sub> -like receptor antagonist |

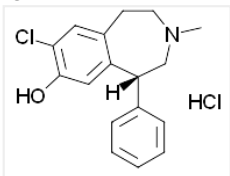
#### Biological Data

|                               |   |
|-------------------------------|---|
| <b>Biological description</b> | Potent and selective D <sub>1</sub> -like receptor antagonist (K <sub>i</sub> values are 0.2, 0.3, ~800, ~1100, ~3000 nM at D <sub>1</sub> , D <sub>5</sub> , D <sub>3</sub> , D <sub>2</sub> and D <sub>4</sub> respectively). Also acts as an agonist at 5-HT <sub>1C</sub> and 5-HT <sub>2C</sub> (K <sub>i</sub> values are 6.3 and 9.3 respectively). Shows anxiolytic and anticonvulsant effects. Active <i>in vivo</i> . |
|-------------------------------|---|

#### Solubility & Handling

|                             |   |
|-----------------------------|---|
| <b>Storage instructions</b> | +4 °C (desiccate)   |
| <b>Solubility overview</b>  | Soluble in water (100mM), DMSO (100mM), ethanol (50mM)  |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

#### Chemical Data

|                           |  |
|---------------------------|--|
| <b>Chemical name</b>      | (R)-(+)-7-Chloro-8-hydroxy-3-methyl-1-phenyl-2,3,4,5-tetrahydro-1H-3-benzazepine hydrochloride |
| <b>Molecular Weight</b>   | 324.24   |
| <b>Chemical structure</b> |             |
| <b>Molecular Formula</b>  | C <sub>17</sub> H <sub>18</sub> ClNO.HCl   |
| <b>CAS Number</b>         | 125941-87-9  |
| <b>PubChem identifier</b> | 11957535   |
| <b>SMILES</b>             | C1C=C(O)C=C([C@](C3=CC=CC=C3)([H])C2)C(CCN2C)=C1.Cl  |
| <b>InChiKey</b>           | OYCAEWMSOPMASE-XFULWGLBSA-N  |

#### References

The 'selective' dopamine D<sub>1</sub> receptor antagonist, SCH23390, is a potent and high efficacy agonist at cloned human serotonin<sub>2C</sub> receptors.

Millan MJ *et al* (2001) Psychopharmacology (Berl) 156(1)

**PubMedID** [11465634](#)

**SCH 23390: the first selective dopamine D1-like receptor antagonist.**

Bourne JA (2001) CNS Drug Rev 7(4)

**PubMedID** [11830757](#)

**Selective blockade of dopamine D-1 receptor by SCH 23390 affects dopamine agonist binding to 3H-spiroperone labeled D-2 receptors in rat striatum.**

Zhang X *et al* (1989) Jpn J Pharmacol 50(3)

**PubMedID** [2569545](#)

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