

**Product Name:** Ziprasidone hydrochloride

**Catalog No.:** 3085

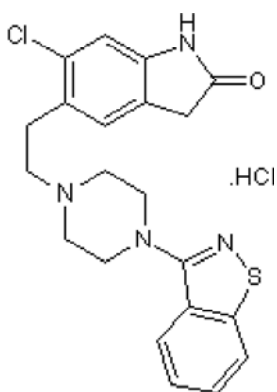
**Batch No.:** 2

CAS Number: 122883-93-6

IUPAC Name: 5-[2-[4-(1,2-Benzisothiazol-3-yl)-1-piperazinyl]ethyl]-6-chloro-1,3-dihydro-2H-indol-2-one hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>21</sub>ClN<sub>4</sub>OS.HCl.H<sub>2</sub>O  
**Batch Molecular Weight:** 467.42  
**Physical Appearance:** Pale orange solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 53.96  | 5.18     | 11.99    |
| Found       | 54.14  | 5.18     | 11.99    |

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

**bio-techne.com**

info@bio-techne.com  
techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com  
Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors  
Tel: +1 612 379 2956

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**Description:**

Atypical antipsychotic that displays combined serotonin and dopamine receptor antagonism. Displays high affinity at 5-HT<sub>2A</sub> receptors with a 5-HT<sub>2A</sub>/D<sub>2</sub> affinity ratio greater than any other clinically available atypical antipsychotics (pK<sub>i</sub> values are 9.38, 8.88, 8.69, 8.47, 8.32, 8.14, 7.98, 7.49, 7.33 and 6.28 for 5-HT<sub>2A</sub>, 5-HT<sub>2C</sub>, 5-HT<sub>1D</sub>, 5-HT<sub>1A</sub>, D<sub>2</sub>, D<sub>3</sub>, α<sub>1</sub>, D<sub>4</sub>, H<sub>1</sub> and D<sub>1</sub> receptors respectively).

**Physical and Chemical Properties:**

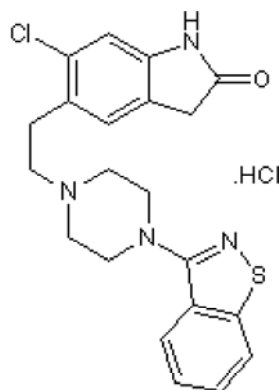
Batch Molecular Formula: C<sub>21</sub>H<sub>21</sub>ClN<sub>4</sub>OS.HCl.H<sub>2</sub>O

Batch Molecular Weight: 467.42

Physical Appearance: Pale orange solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Fell *et al*** (2005) Investigation into the effects of the novel antipsychotic zipras. on weight gain and reproductive function in female rats. *Behav.Brain Res.* **160** 338. PMID: 15863230.

**Schmidt *et al*** (2001) Ziprasidone: a novel antipsychotic agent with a unique human receptor binding profile. *Eur.J.Pharmacol.* **425** 197. PMID: 11513838.

**Seeger *et al*** (1995) Ziprasidone (CP-88,059): a new antipsychotic with combined DA and serotonin receptor antagonist activity. *J.Pharmacol.Exp.Ther.* **275** 101. PMID: 7562537.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO 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.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

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**North America**

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**China**

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Tel:+1 612 379 2956