

**Product Name:** Sonepiprazole

**Catalog No.:** 4185

**Batch No.:** 1

CAS Number: 170858-33-0

IUPAC Name: 4-[4-[2-[(1S)-3,4-Dihydro-1H-2-benzopyran-1-yl)ethyl]-1-piperazinyl]-benzenesulfonamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>S.½H<sub>2</sub>O

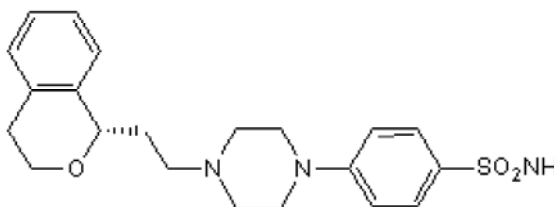
**Batch Molecular Weight:** 410.53

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.5 (Chloroform:Methanol [85:15])

**HPLC:** Shows 97.9% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -62.1 (Concentration = 0.48, Solvent = DMF)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	61.44	6.87	10.24
Found	61.54	6.75	10.33

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

**Product Name:** Sonepiprazole

**Catalog No.:** 4185

**Batch No.:** 1

CAS Number: 170858-33-0

IUPAC Name: 4-[4-[2-[(1S)-3,4-Dihydro-1H-2-benzopyran-1-yl]ethyl]-1-piperazinyl]-benzenesulfonamide

**Description:**

Sonepiprazole is a selective, high affinity antagonist for the rat and human dopamine D<sub>4</sub> receptor (K<sub>i</sub> = 10 nM). Exhibits low affinity at other monoamine receptors (K<sub>i</sub> > 2000 nM). Induces c-fos gene expression in medial prefrontal cortex in a similar manner to clozapine (Cat. No. 0444). Brain penetrant and orally available.

**Physical and Chemical Properties:**

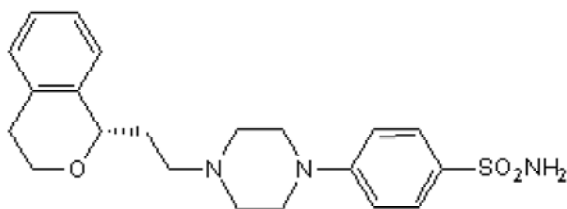
Batch Molecular Formula: C<sub>21</sub>H<sub>27</sub>N<sub>3</sub>O<sub>3</sub>S.½H<sub>2</sub>O

Batch Molecular Weight: 410.53

Physical Appearance: Off-white solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**References:**

**Merchant *et al*** (1996) Pharmacological characterization of U-101387, a DA D<sub>4</sub> receptor selective antagonist. *J.Pharmacol.Exp.Ther.* **279** 1392. PMID: 8968364.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

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.

**Licensing Information:**

Sold for research purposes under agreement from Pfizer Inc.

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