

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: C₂₁H₂₇N₃O₃S·½H₂O

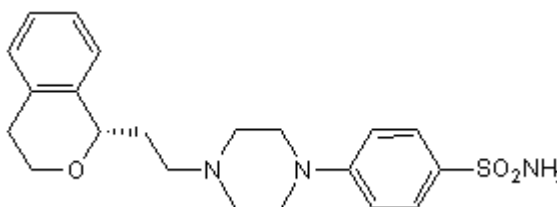
Batch Molecular Weight: 410.53

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol [85:15])

HPLC: Shows >98% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -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

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Description:

Selective, high affinity antagonist for the rat and human dopamine D₄ receptor (K_i = 10 nM). Exhibits low affinity at other monoamine receptors (K_i > 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:

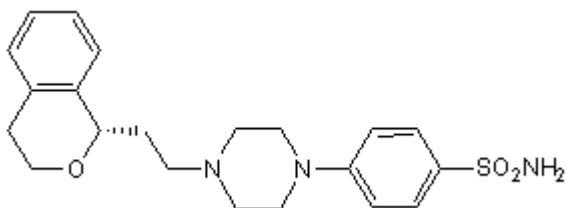
Batch Molecular Formula: C₂₁H₂₇N₃O₃S.½H₂O

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 dopamine D₄ receptor selective antagonist. *J.Pharm.Exp.Ther.* **279** 1392.

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.

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