

Product Name: (S)-(-)-Sulpiride

Catalog No.: 0895

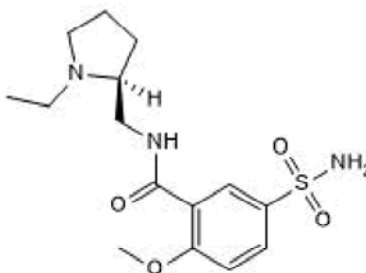
Batch No.: 5

CAS Number: 23672-07-3

IUPAC Name: (S)-(-)-5-Aminosulfonyl-N-[(1-ethyl-2-pyrrolidinyl)methyl]-2-methoxybenzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₃N₃O₄S
Batch Molecular Weight: 341.42
Physical Appearance: White solid
Solubility: ethanol to 10 mM with gentle warming
DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -67.2 (Concentration = 2, Solvent = DMF)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.77	6.79	12.31
Found	52.8	6.71	12.33

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

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Description:

(S)-(-)-Sulpiride is an active enantiomer. Selective D₂-like dopamine antagonist (K_i values are ~ 0.015, ~ 0.013, 1, ~ 45 and ~ 77 μM at D₂, D₃, D₄, D₁ and D₅ receptors respectively). Racemate also available.

Physical and Chemical Properties:

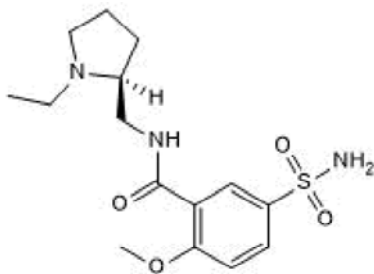
Batch Molecular Formula: C₁₅H₂₃N₃O₄S

Batch Molecular Weight: 341.42

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



References:

Seeman and Van Tol (1994) DA receptor pharmacology. *TiPS* **15** 264. PMID: 7940991.

Seeman and Van Tol (1993) DA D₄ receptors bind inactive (+)-aporphines, suggesting neuroleptic role. Sulpiride not stereoselective. *Eur.J.Pharmacol.* **233** 173. PMID: 8097160.

Merck Index **12** 9163.

Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM with gentle warming
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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