

Certificate of Analysis

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Product Name: (RS)-(±)-Sulpiride

Catalog No.: 0894

Batch No.: 3

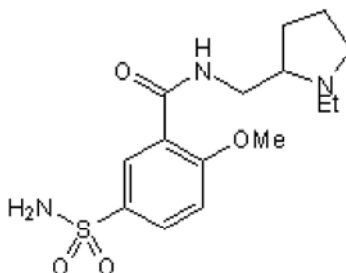
CAS Number: 15676-16-1

EC Number: 239-753-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|---|
| Batch Molecular Formula: | C ₁₅ H ₂₃ N ₃ O ₄ S |
| Batch Molecular Weight: | 341.42 |
| Physical Appearance: | White solid |
| Solubility: | ethanol to 10 mM 1eq. HCl to 50 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 | | | |
| Microanalysis: | Carbon Hydrogen Nitrogen | | | |
| | Theoretical | 52.77 | 6.79 | 12.31 |
| | Found | 52.53 | 6.76 | 12.17 |

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

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

Description:

Standard D₂-like dopamine receptor antagonist. S-enantiomer also available.

Physical and Chemical Properties:

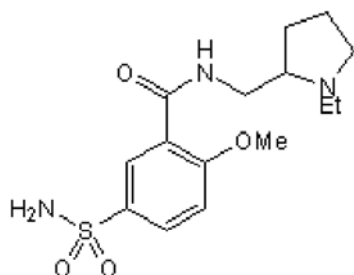
Batch Molecular Formula: C₁₅H₂₃N₃O₄S

Batch Molecular Weight: 341.42

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 10 mM

1eq. HCl to 50 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.

References:

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

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

Merck Index **12** 9163.

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