

Certificate of Analysis

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Product Name: Amisulpride

Catalog No.: 2132

Batch No.: 2

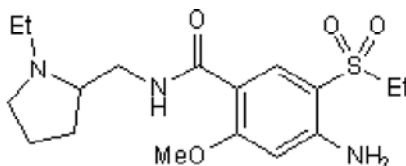
CAS Number: 71675-85-9

EC Number: 275-831-7

IUPAC Name: 4-Amino-N-[(1-ethyl-2-pyrrolidinyl)methyl]-5-(ethylsulfonyl)-2-benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₇ H ₂₇ N ₃ O ₄ S
Batch Molecular Weight:	369.48
Physical Appearance:	White solid
Solubility:	1eq. HCl to 25 mM with gentle warming DMSO to 50 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

Melting Point:	Between 125 - 126°C
HPLC:	Shows 99.2% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	
	Carbon Hydrogen Nitrogen
Theoretical	55.26 7.37 11.37
Found	55.64 7.44 11.29

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

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Description:

Potent, selective dopamine D₂ and D₃ receptor antagonist. K_i values are 2.8 and 3.2 nM respectively for human D₂ and D₃ and > 1000 nM for human D₁, D₄ and D₅ receptors. Shows selectivity for presynaptic dopamine autoreceptors at low doses and blocks postsynaptic D₂/D₃ receptors at higher doses. Preferentially interacts with limbic D₂-like receptors in vivo. Atypical antipsychotic/antischizophrenic agent with limited extrapyramidal side effects and a profile distinct from that of haloperidol and remoxipride.

Physical and Chemical Properties:

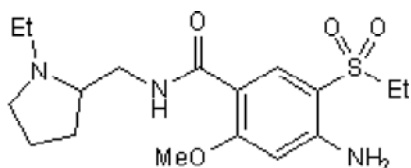
Batch Molecular Formula: C₁₇H₂₇N₃O₄S

Batch Molecular Weight: 369.48

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Moller (2003) Amisulpride: limbic specificity and the mechanism of antipsychotic atypicality. *Prog.Neuro-Psychopharm.Biol.Psychiat.* **27** 1101.

Perrault et al (1997) Psychopharmacological profile of amisulpride: an antipsychotic drug with presynaptic D₂/D₃ DA receptor antagonist activity and limbic selectivity. *J.Pharmacol.Exp.Ther.* **280** 73. PMID: 8996184.

Schoemaker et al (1997) Neurochemical characteristics of amisulpride, an atypical DA D₂/D₃ receptor antagonist with both presynaptic and limbic selectivity. *J.Pharmacol.Exp.Ther.* **280** 83. PMID: 8996185.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

1eq. HCl to 25 mM with gentle warming
DMSO to 50 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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