

Certificate of Analysis

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Product Name: Remoxipride hydrochloride

Catalog No.: 0916

Batch No.: 2

CAS Number: 73220-03-8

IUPAC Name: (S)-(-)-3-Bromo-N-[(1-ethyl-2-pyrrolidinylmethyl)2,6-dimethoxybenzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₃BrN₂O₃.HCl.H₂O

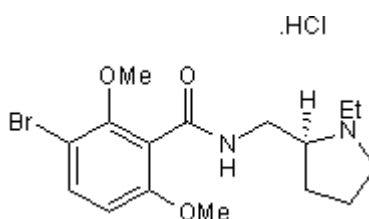
Batch Molecular Weight: 425.75

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 115 - 117°C

¹H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen		
Theoretical	45.14	6.16	6.58	0	0
Found	44.9	6.12	6.5	0	0

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

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Description:

Dopamine D₂ receptor antagonist showing selectivity over D₃ and D₄ receptors (K_i values are ~ 300, ~ 1600, and ~ 2800 nM for D₂, D₃ and D₄ receptors respectively). Exhibits antipsychotic activity in vivo with no extrapyramidal side effects. 50-fold more potent than sulpiride in antagonising the effects of apomorphine in the rat.

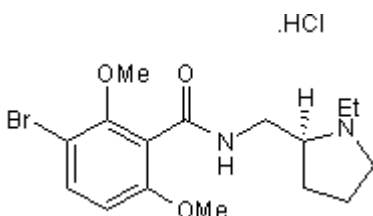
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

water 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:

Sedvall (1990) Development of a new antipsychotic remoxipride. *Acta Psychiatr.Scand.Suppl.* **358** 1. PMID: 1978466.

Mohell et al (1993) Binding characteristics of remoxipride and its metabolites to dopamine D₂ and D₃ receptors. *Eur.J.Pharmacol.* **238** 121. PMID: 8405075.

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

Ahlenius et al (1997) *In vivo* effects of remoxipride and aromatic ring metabolites in the rat. *J.Pharmacol.Exp.Ther.* **283** 1356. PMID: 9400011.

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