

**Product Name:** Raclopride

**Catalog No.:** 1810

**Batch No.:** 3

CAS Number: 84225-95-6

IUPAC Name: 3,5-Dichloro-N-[[[(2S)-1-ethyl-2-pyrrolidiny]methyl]-2-hydroxy-6-methoxybenzamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>20</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>3</sub>

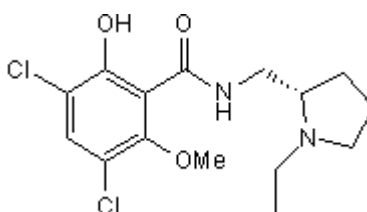
**Batch Molecular Weight:** 347.24

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM  
ethanol to 25 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.42 (Chloroform:Methanol [9:1])

**HPLC:** Shows 99% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -82 (Concentration = 1, Solvent = Acetone)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	51.88	5.81	8.07
Found	51.83	5.78	7.97

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**Description:**

Selective and potent dopamine D<sub>2</sub>/D<sub>3</sub> receptor antagonist (K<sub>i</sub> values are 1.8, 3.5, 2400 and 18000 nM for D<sub>2</sub>, D<sub>3</sub>, D<sub>4</sub> and D<sub>1</sub> receptors respectively). Centrally active following systemic administration in vivo.

**Physical and Chemical Properties:**

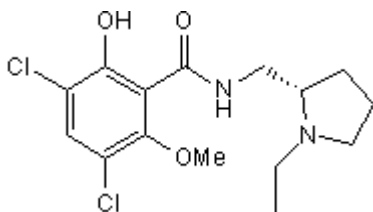
Batch Molecular Formula: C<sub>15</sub>H<sub>20</sub>Cl<sub>2</sub>N<sub>2</sub>O<sub>3</sub>

Batch Molecular Weight: 347.24

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 25 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.

**Hall et al** (1989) Animal pharmacology of raclopride, a selective dopamine D<sub>2</sub> antagonist. *Psychopharmacol.Ser.* **7** 123. PMID: 2687851.

**Ogren et al** (1986) The selective dopamine D<sub>2</sub> receptor antagonist raclopride discriminates between dopamine-mediated motor functions. *Psychopharmacology* **90** 287. PMID: 2947255.

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