

## Certificate of Analysis

www.tocris.com

**Product Name:** Eticlopride hydrochloride

**Catalog No.:** 1847

**Batch No.:** 1

CAS Number: 97612-24-3

IUPAC Name: 3-Chloro-5-ethyl-N-[[[(2S)-1-ethyl-2-pyrrolidinyl)methyl]-6-hydroxy-2-methoxy-benzamide hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>25</sub>ClN<sub>2</sub>O<sub>3</sub>.HCl

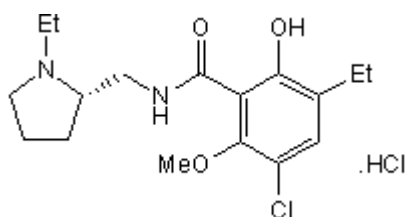
**Batch Molecular Weight:** 377.31

**Physical Appearance:** Off-white solid

**Solubility:** water to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.8 (Dichloromethane:Methanol [9:1])

**Melting Point:** Between 147 - 148°C

**HPLC:** Shows >99.9% purity

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

**Mass Spectrum:** Consistent with structure

**Optical Rotation:** [α]<sub>D</sub> = -4.7 (Concentration = 0.3, Solvent = Methanol)

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical 54.12 6.95 7.42

Found 54.38 6.97 7.29

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

**Product Name:** Eticlopride hydrochloride

**Catalog No.:** 1847

**Batch No.:** 1

CAS Number: 97612-24-3

IUPAC Name: 3-Chloro-5-ethyl-N-[[[(2S)-1-ethyl-2-pyrrolidinyl)methyl]-6-hydroxy-2-methoxy-benzamide hydrochloride

**Description:**

Selective dopamine D<sub>2</sub>/D<sub>3</sub> receptor antagonist (K<sub>i</sub> values are 0.50 and 0.16 nM respectively). Antipsychotic.

**Physical and Chemical Properties:**

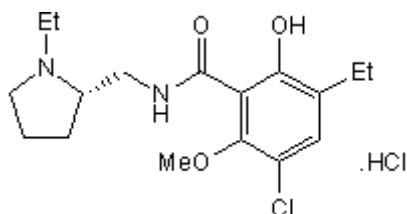
Batch Molecular Formula: C<sub>17</sub>H<sub>25</sub>ClN<sub>2</sub>O<sub>3</sub>·HCl

Batch Molecular Weight: 377.31

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate 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:**

**Hall et al** (1985) Some in vitro receptor binding properties of [<sup>3</sup>H]eticlopride, a novel substituted benzamide, selective for dopamine-D<sub>2</sub> receptors in the rat brain. *Eur.J.Pharmacol.* **111** 191. PMID: 4018125.

**Giuliani and Ferrari** (1997) Involvement of dopamine receptors in the antipsychotic profile of (-) eticlopride. *Physiol.Behav.* **61** 563. PMID: 9108576.

**Claytor et al** (2006) The effects of eticlopride and the selective D<sub>3</sub>-antagonist PNU 99194-A on food- and cocaine-maintained responding in rhesus monkeys. *Pharmacol.Biochem.Behav.* **83** 456. PMID: 16631246.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956