

Certificate of Analysis

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Product Name: Indorenate hydrochloride

Catalog No.: 2399

Batch No.: 1

CAS Number: 72318-55-9

IUPAC Name: α -(Aminomethyl)-5-methoxy-1*H*-indole-3-acetic acid methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{16}N_2O_3 \cdot HCl \cdot \frac{1}{4}H_2O$

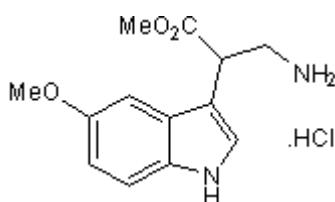
Batch Molecular Weight: 289.24

Physical Appearance: Off-white solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.5$ (Chloroform:Methanol [4:1])

HPLC: Shows >99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

| | Carbon Hydrogen Nitrogen | | |
|-------------|--------------------------|----------|----------|
| | Carbon | Hydrogen | Nitrogen |
| Theoretical | 53.98 | 6.1 | 9.68 |
| Found | 54.14 | 5.91 | 9.56 |

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

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Description:

5-HT receptor agonist with high affinity for 5-HT_{1A} receptors (pK_d = 7.8) and lower affinity for 5-HT_{1B} and 5-HT_{2C} receptors (pK_d values are 5.44 and 6.49 respectively). Possesses anti-hypertensive, anxiolytic and anorectic activity in vivo.

Physical and Chemical Properties:

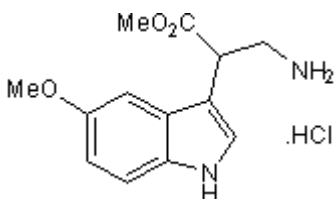
Batch Molecular Formula: C₁₃H₁₆N₂O₃.HCl. ¼H₂O

Batch Molecular Weight: 289.24

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
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:

Velazquez-Martinez et al (1999) Discriminative stimulus properties of indorenate, a serotonin agonist. *J.Psychiatry Neurosci.* **24** 122. PMID: 10212554.

Sanchez and Velazquez-Martinez (2001) Discriminative stimulus properties of indorenate, a 5-HT_{1A}, 5-HT_{1B} and 5-HT_{2C} agonist: a study in rats. *J.Psychopharmacol.* **15** 29. PMID: 11277605.

Miranda et al (2003) Further evidence that the discriminative stimulus properties of indorenate are mediated by 5-HT_{1A/1B/2C} receptors. *Pharmacol.Biochem.Behav.* **74** 371. PMID: 12479957.

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