

Product Name: 5-Carboxamidotryptamine maleate

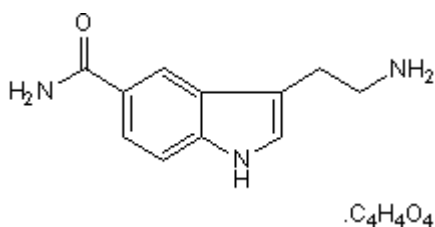
Catalog No.: 0458

Batch No.: 7

CAS Number: 74885-72-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{11}H_{13}N_3O.C_4H_4O_4. \frac{1}{4}H_2O$
Batch Molecular Weight: 323.82
Physical Appearance: Beige solid
Solubility: water to 100 mM
 phosphate buffered saline to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.52$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 169°C
HPLC: Shows >99% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.64	5.45	12.98
Found	55.75	5.28	12.72

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

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Description:

5-HT₁ agonist with high affinity at 5-HT_{1A}, 5-HT_{1B}, 5-HT_{1D}, 5-HT₅ and 5-HT₇ receptors.

Physical and Chemical Properties:

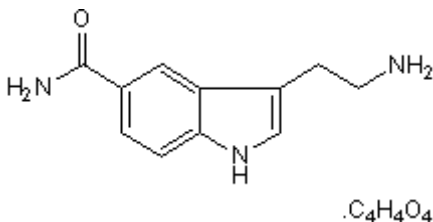
Batch Molecular Formula: C₁₁H₁₃N₃O.C₄H₄O₄.½H₂O

Batch Molecular Weight: 323.82

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 100 mM

phosphate buffered saline 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.

References:

Beer et al (1992) An investigation of the 5-HT_{1D} receptor binding affinity of 5-hydroxytryptamine, 5-carboxyamidotryptamine and sumatriptan in the central nervous system of seven species. *Eur.J.Pharmacol.* **213** 193. PMID: 1325915.

Zifa and Fillion (1992) 5-Hydroxytryptamine receptors. *Pharmacol.Rev.* **44** 401. PMID: 1359584.

Nowak et al (1993) [³H]-5-carboxamidotryptamine labels 5HT_{1D} binding sites in bovine substantia nigra. *Br.J.Pharmacol.* **109** 1206. PMID: 8401931.

Wood et al (2000) Antagonist activity of meta-chlorophenylpiperazine and partial agonist activity of 8-OH-DPAT at the 5-HT₇ receptor. *Eur.J.Pharmacol.* **396** 1. PMID: 10822046.

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