

## Certificate of Analysis

**Product Name:** 5-Carboxamidotryptamine maleate

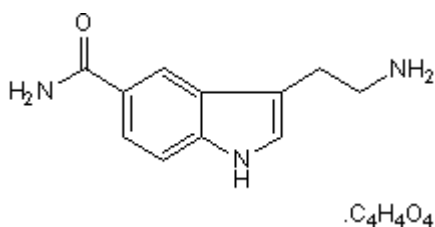
**Catalog No.:** 0458

**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 99.2% purity  
<sup>1</sup>H NMR: Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	55.64	5.45	12.98
Found	55.75	5.28	12.72

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**Description:**

5-HT<sub>1</sub> agonist with high affinity at 5-HT<sub>1A</sub>, 5-HT<sub>1B</sub>, 5-HT<sub>1D</sub>, 5-HT<sub>5</sub> and 5-HT<sub>7</sub> receptors.

**Physical and Chemical Properties:**

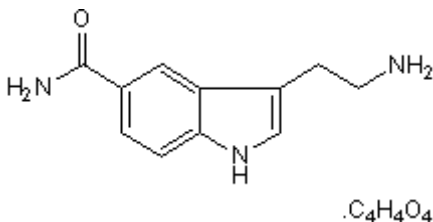
Batch Molecular Formula: C<sub>11</sub>H<sub>13</sub>N<sub>3</sub>O.C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>.½H<sub>2</sub>O

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:**

**Wood et al** (2000) Antagonist activity of meta-chlorophenylpiperazine and partial agonist activity of 8-OH-DPAT at the 5-HT<sub>7</sub> receptor. *Eur.J.Pharmacol.* **396** 1. PMID: 10822046.

**Nowak et al** (1993) [<sup>3</sup>H]-5-carboxamidotryptamine labels 5HT<sub>1D</sub> binding sites in bovine substantia nigra. *Br.J.Pharmacol.* **109** 1206. PMID: 8401931.

**Beer et al** (1992) An investigation of the 5-HT<sub>1D</sub> 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.

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