

Product Name: α -Methyl-5-hydroxytryptamine maleate

Catalog No.: 0557

Batch No.: 5

CAS Number: 97469-12-0

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₄N₂O.C₄H₄O₄. $\frac{1}{4}$ H₂O

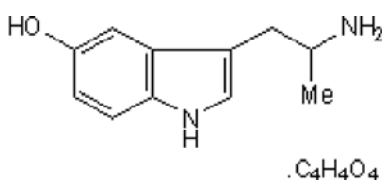
Batch Molecular Weight: 310.82

Physical Appearance: Grey solid

Solubility: water to 10 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.7 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows >98.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.96	6	9.01
Found	58.09	5.88	9.1

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

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Description:

5-HT_{2B} receptor selective agonist with pK_i values of 8.4, 6.1 and 7.3 at 5-HT_{2B}, 5-HT_{2A} and 5-HT_{2C} receptors respectively.

Physical and Chemical Properties:

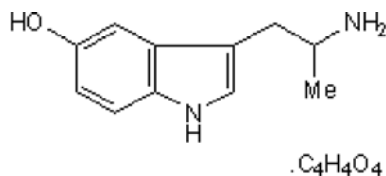
Batch Molecular Formula: C₁₁H₁₄N₂O.C₄H₄O₄.¼H₂O

Batch Molecular Weight: 310.82

Physical Appearance: Grey solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 10 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Baxter et al (1995) 5-HT₂ receptor subtypes: a family re-united? *TiPS* **16** 105. PMID: 7792930.

Wilson et al (1990) 5-Hydroxytryptamine₃ receptors mediate tachycardia in conscious instrumented dogs. *J.Pharmacol.Exp.Ther.* **252** 683. PMID: 1968974.

Richardson et al (1985) Identification of serotonin M-receptor sub-types and their specific blockade by a new class of drugs. *Nature* **316** 126. PMID: 3839291.

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