

Certificate of Analysis

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Product Name: 2-Methyl-5-hydroxytryptamine hydrochloride

Catalog No.: 0558

Batch No.: 5

CAS Number: 845861-49-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₄N₂O.HCl.H₂O

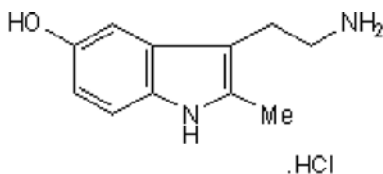
Batch Molecular Weight: 244.73

Physical Appearance: Beige solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 53.99 | 7 | 11.45 |
| Found | 54.11 | 6.66 | 11.44 |

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

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Product Name: 2-Methyl-5-hydroxytryptamine hydrochloride

Catalog No.: 0558

Batch No.: 5

CAS Number: 845861-49-6

Description:

5-HT₃ agonist (K_i = 1200 nM) and potent 5-HT₆ ligand (K_i = 46 nM).

Physical and Chemical Properties:

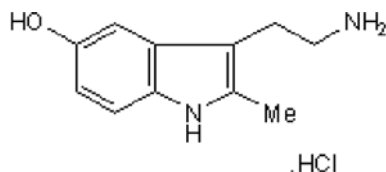
Batch Molecular Formula: C₁₁H₁₄N₂O.HCl.H₂O

Batch Molecular Weight: 244.73

Physical Appearance: Beige solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is unstable in solution, therefore we recommend that solutions are made up and used on the day of preparation.

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:

Glennon *et al* (2000) 2-substituted tryptamines: agents with selectivity for 5-HT₆ serotonin receptors. *J.Med.Chem.* **43** 1011. PMID: 10715164.

Craig *et al* (1990) 5-Methoxytryptamine and 2-methyl-5-hydroxytryptamine-induced desensitization as a discriminative tool for the 5-HT₃ and putative 5-HT₄ receptors in guinea pig ileum. *Naunyn Schmiedebergs Arch.Pharmacol.* **342** 9. PMID: 2402303.

Ismaiel *et al* (1990) 5-HT₁ and 5-HT₂ binding profiles of the serotonergic agents α-methyl serotonin and 2-methylserotonin. *J.Med.Chem.* **33** 755. PMID: 2299641.

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

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