

Certificate of Analysis

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Product Name: EMDT oxalate

Catalog No.: 4209

Batch No.: 1

CAS Number: 263744-72-5

IUPAC Name: 2-Ethyl-5-methoxy-*N,N*-dimethyl-1*H*-indole-3-ethanamine oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{22}N_2O \cdot C_2H_2O_4$

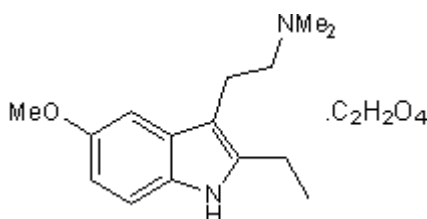
Batch Molecular Weight: 336.38

Physical Appearance: Off-white solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: $R_f = 0.34$ (Dichloromethane:Methanol [9:1])

HPLC: Shows >98.7% purity

1H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.7	7.19	8.33
Found	60.39	7.19	8.28

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

Product Information

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CAS Number: 263744-72-5

IUPAC Name: 2-Ethyl-5-methoxy-*N,N*-dimethyl-1*H*-indole-3-ethanamine oxalate

Description:

Selective 5-HT₆ agonist (with a K_i value of 16 nM at human 5-HT₆ receptors). Exhibits potency comparable to serotonin for the activation of adenylate cyclase. Displays antidepressant-like effects.

Physical and Chemical Properties:

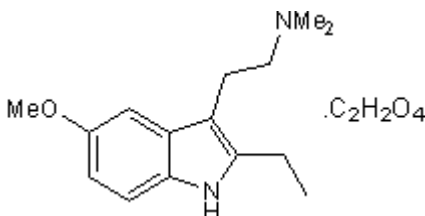
Batch Molecular Formula: C₁₅H₂₂N₂O.C₂H₂O₄

Batch Molecular Weight: 336.38

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 50 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:

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

Svenningsson *et al* (2007) Biochemical and behavioral evidence for antidepressant-like effects of 5-HT₆ receptor stimulation. *J.Neurosci.* **27** 4201. PMID: 17428998.

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