

Certificate of Analysis

Product Name: L-703,664 succinate

Catalog No.: 2640

Batch No.: 1

CAS Number: 144776-01-2

IUPAC Name: *N,N*-Dimethyl-5-[(5-methyl-1,1-dioxido-1,2,5-thiadiazolidin-2-yl)methyl]-1*H*-indole-3-ethanamine succinate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₄N₄O₂S.C₄H₆O₄

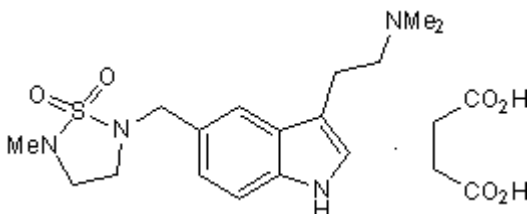
Batch Molecular Weight: 454.54

Physical Appearance: White crystalline solid

Solubility: water to 50 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Chloroform:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows >99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 52.85 | 6.65 | 12.33 |
| Found | 52.69 | 6.48 | 12.32 |

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

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Description:

5-HT_{1D} receptor agonist that displays selectivity over other 5-HT receptor subtypes (pIC₅₀ values are 7.2, 6.1, < 5.0 and < 5.0 for 5-HT_{1D}, 5-HT_{1A}, 5-HT_{2A} and 5-HT₃ respectively) and other receptors (pIC₅₀ < 5.0 for adenosine, adrenergic, excitatory amino acids, dopamine, histamine, muscarinic, nicotinic and opiate receptors).

Physical and Chemical Properties:

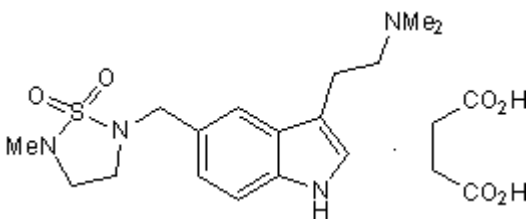
Batch Molecular Formula: C₁₆H₂₄N₄O₂S.C₄H₆O₄

Batch Molecular Weight: 454.54

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Castro et al (1994) Synthesis and biological activity of 3-[2-(dimethylamino)ethyl]-5-[(1,1-dioxo-5-methyl-1,2,5-thiadiazolidin-2-yl)methyl]-1*H*-indole and analogues: agonists for the 5-HT_{1D} receptor. *J. Med. Chem.* **37** 3023. PMID: 7932524.

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.

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