

Certificate of Analysis

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Product Name: Sumatriptan succinate

Catalog No.: 3586

Batch No.: 1

CAS Number: 103628-48-4

IUPAC Name: 3-[2-(Dimethylamino)ethyl]-*N*-methyl-1*H*-indole-5-methanesulfonamide succinate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₁N₃O₂S.C₄H₆O₄

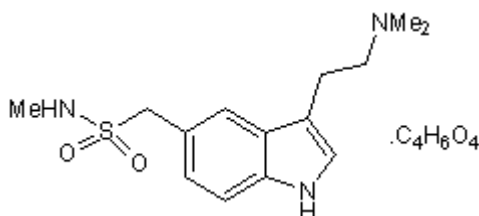
Batch Molecular Weight: 413.49

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 75 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.29	6.58	10.16
Found	52.24	6.52	10.18

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

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Description:

5-HT₁ receptor agonist (K_i values are 17, 27 and 100 nM at 5-HT_{1D}, 5-HT_{1B} and 5-HT_{1A} receptors respectively). Antimigraine agent.

Physical and Chemical Properties:

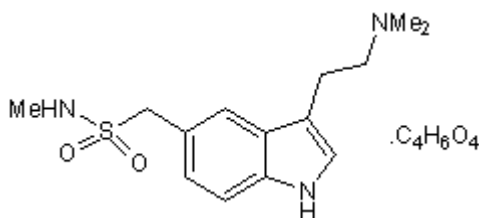
Batch Molecular Formula: C₁₄H₂₁N₃O₂S.C₄H₆O₄

Batch Molecular Weight: 413.49

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO to 75 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:

Peroutka and McCarthy (1989) Sumatriptan (GR 43175) interacts selectively with 5-HT_{1B} and 5-HT_{1D} binding sites. *Eur.J.Pharmacol.* **163** 133. PMID: 2545459.

Peroutka (1990) Sumatriptan in acute migraine: pharmacology and review of world experience. *Headache* **30** 554. PMID: 2177047.

Ottani et al (2004) Effect of sumatriptan in different models of pain in rats. *Eur.J.Pharmacol.* **497** 181. PMID: 15306203.

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