

Certificate of Analysis

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Product Name: SDZ SER 082 fumarate

Catalog No.: 1255

Batch No.: 1

CAS Number: 1417343-80-6

IUPAC Name: (+)-*cis*-4,5,7a,8,9,10,11,11a-Octahydro-7*H*-10-methylindolo[1,7-*bc*][2,6]-naphthyridine fumarate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₀N₂·C₄H₄O₄

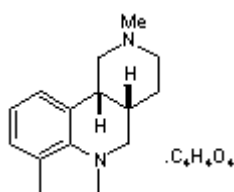
Batch Molecular Weight: 344.41

Physical Appearance: Light yellow solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

Melting Point: Between 180 - 184°C

¹H NMR: Consistent with structure

Optical Rotation: [α]_D = +23.7 (Concentration = 1, Solvent = Methanol)

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical	66.26	7.02	8.13	0 0 0
Found	66.43	7.06	8.16	0 0 0

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

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Description:

Selective 5-HT_{2B/2C} receptor antagonist with low affinity for 5-HT_{1A} receptors. Inhibits [³H]-mesulergine binding to 5-HT_{2C} receptors with a pK_D of 7.8. Inhibits 5-HT_{2B} mediated responses in the rat fundus (pK_B = 7.34).

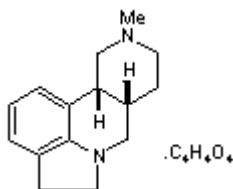
Physical and Chemical Properties:

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Storage: Store at RT

Solubility & Usage Info:

water 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:

Nozulak et al (1995) (+)-*cis* 4,5,7a,8,9,10,11,11a-Octahydro-7H-10-methylindolo[1,7-*bc*][2,6]-naphthyridine: a 5-HT_{2C/2B} receptor antagonist with low 5-HT_{2A} receptor affinity. J.Med.Chem. **38** 28. PMID: 7837236.

Mora et al (1997) Role of 5-HT_{2A} and 5-HT_{2C} receptor subtypes in the two types of fear generated by the elevated T-maze. Pharmacol.Biochem.Behav. **58** 1051. PMID: 9408213.

Kalkman et al (1998) Cataleptogenic effect of subtype selective 5-HT receptor antagonists in the rat. Eur.J.Pharmacol. **343** 201. PMID: 9570468.

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