

Product Name: ST 1936 oxalate

Catalog No.: 4337

Batch No.: 1

CAS Number: 1782228-83-4

IUPAC Name: 5-Chloro-3-[2-(dimethylamino)ethyl]-2-methylindole oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₇ClN₂·C₂H₂O₄

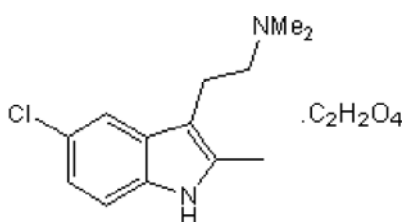
Batch Molecular Weight: 326.78

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.13	5.86	8.57
Found	55.12	5.83	8.52

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

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Description:

High affinity, selective agonist of 5-HT₆ receptors (K_i values are 13, 168, and 245 nM for human 5-HT₆, 5-HT₇ and 5-HT_{2B} receptors respectively). Displays moderate affinity for human α₂ adrenergic receptors (K_i = 300 nM). Shown to increase Ca²⁺ concentration and phosphorylation of Fyn kinase, and regulate the activation of ERK1/2 in cloned cells.

Physical and Chemical Properties:

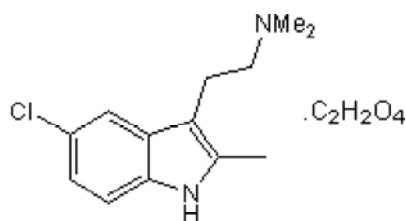
Batch Molecular Formula: C₁₃H₁₇ClN₂.C₂H₂O₄

Batch Molecular Weight: 326.78

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

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.

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:

Riccioni *et al* (2011) ST1936 stimulates cAMP, Ca²⁺, ERK1/2 and Fyn kinase through a full activation of cloned 5-HT₆ receptors. *Eur.J.Pharmacol.* **661** 8. PMID: 21549693.

Valentini *et al* (2011) A microdialysis study of ST1936, a novel 5-HT₆ receptor agonist. *Neuropharmacology* **60** 602. PMID: 21185318.

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