TOCRIS
a bio-techne brand

Print Date: Jan 15th 2016

# Certificate of Analysis

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**Product Name:** **MS 245 oxalate** **Catalog No.: 4208** **Batch No.: 1**

CAS Number: 275363-58-1

IUPAC Name: 5-Methoxy-*N*,*N*-dimethyl-1-(phenylsulfonyl)-1*H*-indole-3-ethanamine oxalate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{19}H_{22}N_2O_3S.C_2H_2O_4$

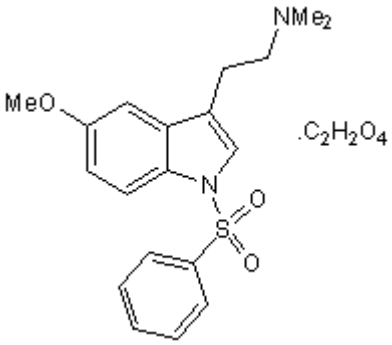
**Batch Molecular Weight:** 448.49

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 50 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**TLC:** $R_f$ = 0.4 (Chloroform:Methanol [9:1])

**HPLC:** Shows 99.5% purity

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 56.24 | 5.39 | 6.25 |
| Found | 56.18 | 5.35 | 6.17 |



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IUPAC Name: 5-Methoxy-*N*,*N*-dimethyl-1-(phenylsulfonyl)-1*H*-indole-3-ethanamine oxalate

**Description:**

High affinity 5-$HT_6$ antagonist ($K_i$ = 2.1 nM). Potentiates the hypolocomotor actions of (-)-nicotine in mice.

**Physical and Chemical Properties:**

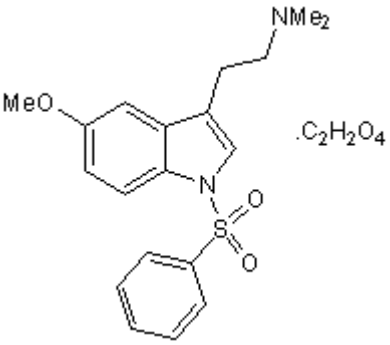
Batch Molecular Formula: $C_{19}H_{22}N_2O_3S.C_2H_2O_4$

Batch Molecular Weight: 448.49

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**




**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 50 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-$HT_6$ serotonin receptors. J.Med.Chem. ***43*** 1011. PMID: 10715164.

**Young** *et al* (2006) Effect of the 5-$HT_6$ serotonin antagonist MS-245 on the actions of (-)nicotine. Pharmacol.Biochem.Behav. ***85*** 170. PMID: 16950502.

**Dukat** *et al* (2008) Binding of serotonin and $N_1$-benzenesulfonyltryptamine-related analogs at human 5-$HT_6$ serotonin receptors: receptor modeling studies. J.Med.Chem. ***51*** 603. PMID: 18201064.

**Nirogi** *et al* (2010) Novel and potent 5-piperazinyl methyl-$N_1$-aryl sulfonyl indole derivatives as 5-$HT_6$ receptor ligands. ACS Med.Chem.Lett. ***1*** 340.



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