

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** L-694,247

**Catalog No.:** 0781

**Batch No.:** 4

**CAS Number:** 137403-12-4

**IUPAC Name:** 2-[5-[3-(4-Methylsulfonylamino)benzyl-1,2,4-oxadiazol-5-yl]-1*H*-indol-3-yl]ethanamine

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>21</sub>N<sub>5</sub>O<sub>3</sub>S.2H<sub>2</sub>O

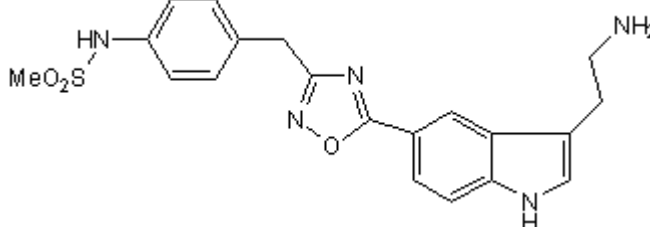
**Batch Molecular Weight:** 447.51

**Physical Appearance:** Cream solid

**Solubility:** DMSO to 100 mM

**Storage:** Desiccate at +4°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.3 (Dichloromethane:Ethanol:Ammonia soln. [35:8:1])

**Melting Point:** Between 140 - 145°C

**HPLC:** Shows >99% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical 53.68 5.63 15.65

Found 53.83 5.66 15.6

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

## Product Information

[www.tocris.com](http://www.tocris.com)

**Product Name:** L-694,247

**Catalog No.:** 0781

**Batch No.:** 4

**CAS Number:** 137403-12-4

**IUPAC Name:** 2-[5-[3-(4-Methylsulfonylamino)benzyl-1,2,4-oxadiazol-5-yl]-1H-indol-3-yl]ethanamine

**Description:**

Selective and extremely potent 5-HT<sub>1D</sub> receptor agonist.

**Physical and Chemical Properties:**

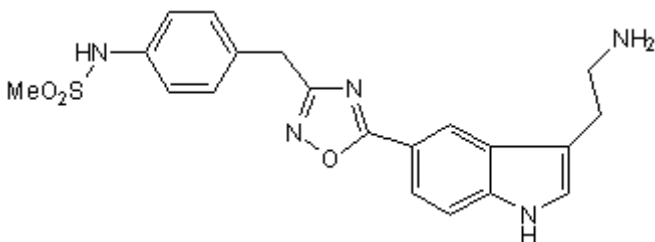
Batch Molecular Formula: C<sub>20</sub>H<sub>21</sub>N<sub>5</sub>O<sub>3</sub>S.2H<sub>2</sub>O

Batch Molecular Weight: 447.51

Physical Appearance: Cream solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate 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.

**References:**

**Beer et al** (1993) L-694,247: a potent 5-HT<sub>1D</sub> receptor agonist. *Br.J.Pharmacol.* **110** 1196. PMID: 8298808.

**Street et al** (1993) Synthesis and serotonergic activity of 5-(oxadiazolyl)tryptamines: potent agonists of 5-HT<sub>1D</sub> receptors. *J.Med.Chem.* **36** 1529. PMID: 8496922.

**Heald et al** (1994) [<sup>3</sup>H]L-694,247 labels the 5-HT<sub>1Dβ</sub> receptor in pig caudate membranes. *Eur.J.Pharmacol.* **264** 213. PMID: 7851485.

**Buhlen et al** (1996) Evidence for presynaptic location of inhibitory 5-HT<sub>1Dβ</sub>-like autoreceptors in the guinea-pig brain cortex. *Naunyn Schmiedebergs Arch.Pharmacol.* **353** 281. PMID: 8692282.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956