

## Certificate of Analysis

**Product Name:** RS 56812 hydrochloride

**Catalog No.:** 0988

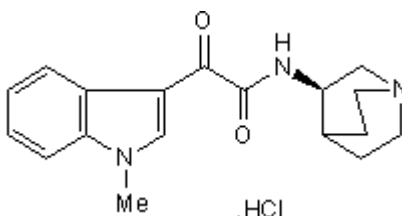
**Batch No.:** 2

CAS Number: 143339-12-2

IUPAC Name: (R)-N-(1-Azabicyclo[2.2.2]oct-3-yl)-2-(1-methyl-1H-indol-3-yl)-2-oxoacetamide hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>18</sub> H <sub>21</sub> N <sub>3</sub> O <sub>2</sub> .HCl
<b>Batch Molecular Weight:</b>	347.8444
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	water to 100 mM phosphate buffered saline to 100 mM DMSO to 50 mM
<b>Storage:</b>	Store at RT
<b>Batch Molecular Structure:</b>	



### 2. ANALYTICAL DATA

<b>TLC:</b>	R <sub>f</sub> = 0.2 (Dichloromethane:Methanol [3:1])
<b>Melting Point:</b>	Between 300 - 301°C
<b>HPLC:</b>	Shows >99.7% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure

	Carbon Hydrogen Nitrogen		
Theoretical	62.15	6.37	12.08
Found	61.95	6.43	11.95

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

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**Description:**

A highly potent and selective 5-HT<sub>3</sub> partial agonist, with a pK<sub>i</sub> at 5-HT<sub>3</sub> receptors in rat brain of 9.6, and greater than 1000-fold selectivity over a wide range of other neurotransmitter receptors.

**Physical and Chemical Properties:**

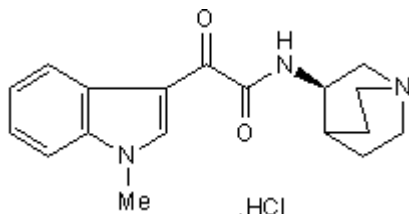
Batch Molecular Formula: C<sub>18</sub>H<sub>21</sub>N<sub>3</sub>O<sub>2</sub>.HCl

Batch Molecular Weight: 347.8444

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 100 mM  
phosphate buffered saline to 100 mM  
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:**

**Clark et al (1995)** *N*-(Quinuclidin-3-yl)-2-(1-methyl-1*H*-indol-3-yl)-2-oxoacetamide: a high affinity 5-HT<sub>3</sub> receptor partial agonist. *Bioorg.Med.Chem.Lett.* **5** 1853.

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**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

Tel:+1 612 379 2956