

**Product Name:** WAY 208466 dihydrochloride

**Catalog No.:** 3904

**Batch No.:** 3

**CAS Number:** 1207064-61-6

**IUPAC Name:** 3-[-(3-Fluorophenyl)sulfonyl]-*N,N*-dimethyl-1*H*-pyrrolo[2,3-*b*]pyridine-1-ethanamine dihydrochloride

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>18</sub>FN<sub>3</sub>O<sub>2</sub>S.2HCl

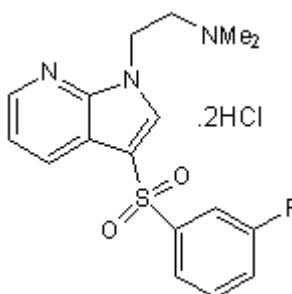
**Batch Molecular Weight:** 420.33

**Physical Appearance:** White powder

**Solubility:** water to 80 mM  
DMSO to 80 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.48 (Dichloromethane:Methanol:Aqueous ammonia. [97:2:1])

**HPLC:** Shows >99.8% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	48.58	4.8	10
Found	48.63	4.81	9.93

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**Description:**

High affinity, selective 5-HT<sub>6</sub> agonist (EC<sub>50</sub> = 7.3 nM at the human 5-HT<sub>6</sub> receptor). Elevates cortical GABA levels in vivo in rat frontal cortex. Exhibits antidepressant and anxiolytic-like effects.

**Physical and Chemical Properties:**

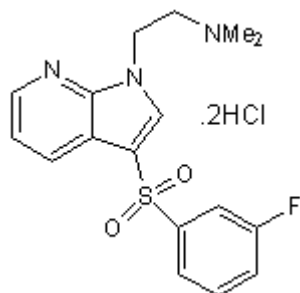
Batch Molecular Formula: C<sub>17</sub>H<sub>18</sub>FN<sub>3</sub>O<sub>2</sub>S.2HCl

Batch Molecular Weight: 420.33

Physical Appearance: White powder

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 80 mM  
DMSO to 80 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:**

**Schechter et al (2008)** Neuropharmacological profile of novel and selective 5-HT<sub>6</sub> receptor agonists: WAY-181187 and WAY-208466. *Neuropsychopharmacol* **33** 1323. PMID: 17625499.

**Carr et al (2010)** Antidepressant and anxiolytic effects of selective 5-HT<sub>6</sub> receptor agonists in rats. *Psychopharmacol.(Berl.)* **213** 49. PMID: 20217056.

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