

**Product Name:** Altanserin hydrochloride

**Catalog No.:** 1809

**Batch No.:** 3

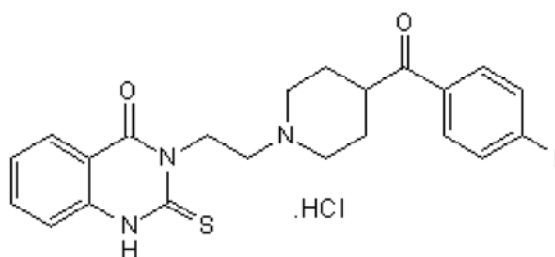
CAS Number: 1135280-78-2

EC Number: 278-422-1

IUPAC Name: 3-[2-[4-(4-Fluorobenzoyl)-1-piperidinyl]ethyl]-2,3-dihydro-2-thioxo-4(1H)-quinazolinone hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>22</sub>FN<sub>3</sub>O<sub>2</sub>S.HCl.1½H<sub>2</sub>O  
**Batch Molecular Weight:** 474.97  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 20 mM with gentle warming  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.6 (Ethyl acetate)  
**Melting Point:** Between 227 - 228°C  
**HPLC:** Shows 98.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	55.63	5.52	8.85
Found	55.8	5.32	8.83

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

**Product Name:** Altanserin hydrochloride

**Catalog No.:** 1809

**Batch No.:** 3

CAS Number: 1135280-78-2

EC Number: 278-422-1

IUPAC Name: 3-[2-[4-(4-Fluorobenzoyl)-1-piperidinyl]ethyl]-2,3-dihydro-2-thioxo-4(1H)-quinazolinone hydrochloride

**Description:**

Potent and selective 5-HT<sub>2A</sub> receptor antagonist (K<sub>i</sub> values are 0.13, 4.55, 40, 62 and 1570 nM at 5-HT<sub>2A</sub>, α<sub>1</sub>, 5-HT<sub>2C</sub>, D<sub>2</sub> and 5-HT<sub>1A</sub> respectively). Centrally active following systemic administration in vivo.

**Physical and Chemical Properties:**

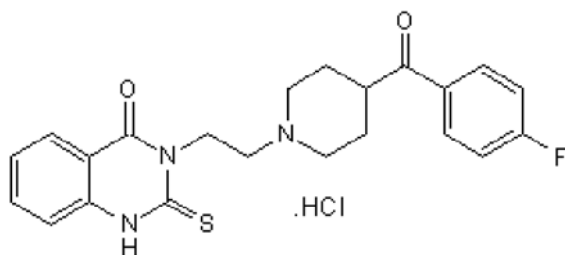
Batch Molecular Formula: C<sub>22</sub>H<sub>22</sub>FN<sub>3</sub>O<sub>2</sub>S.HCl.1½H<sub>2</sub>O

Batch Molecular Weight: 474.97

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

DMSO to 20 mM with gentle warming

**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:**

**Herth et al** (2009) Synthesis and in vitro affinities of various MDL 100907 derivatives as potential <sup>18</sup>F-radioligands for 5-HT<sub>2A</sub> receptor imaging with PET. *Bioorg.Med.Chem.* **17** 2989. PMID: 19329329.

**Kennett et al** (1994) Evidence that 5-HT<sub>2C</sub> receptor antagonists are anxiolytic in the rat Geller-Seifter model of anxiety. *Psychopharmacology* **114** 90. PMID: 7846211.

**Koenig et al** (1987) Stimulation of corticosterone and β-endorphin secretion in the rat by selective 5-HT receptor subtype activation. *Eur.J.Pharmacol.* **137** 1. PMID: 2956114.

**Sietnick** (1985) Involvement of 5-HT<sub>2</sub> receptors in the LSD- and L-5-HTP-induced suppression of lordotic behavior in the female rat. *J.Neural Transm.* **61** 65. PMID: 3872342.

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

Tel:+1 612 379 2956