

Certificate of Analysis

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Product Name: Altanserin hydrochloride

Catalog No.: 1809

Batch No.: 3

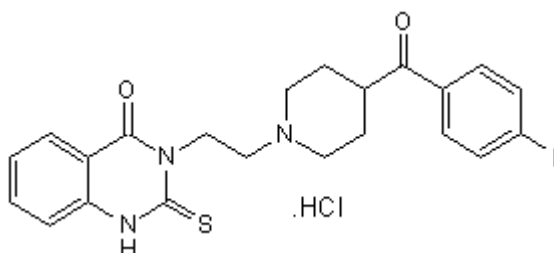
CAS Number: 1135280-78-2

EC Number: 278-422-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{22}H_{22}FN_3O_2S \cdot HCl \cdot 1\frac{1}{2}H_2O$
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: $R_f = 0.6$ (Ethyl acetate)
Melting Point: Between 227 - 228°C
HPLC: Shows >98.6% purity
¹H 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

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Description:

Potent and selective 5-HT_{2A} receptor antagonist (K_i values are 0.13, 4.55, 40, 62 and 1570 nM at 5-HT_{2A}, α₁, 5-HT_{2C}, D₂ and 5-HT_{1A} respectively). Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

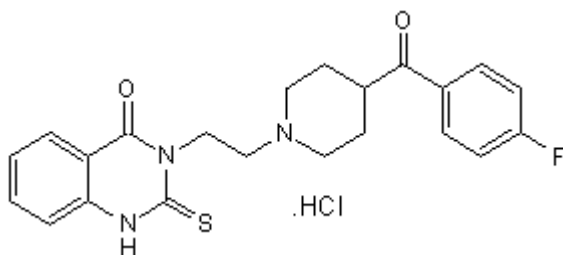
Batch Molecular Formula: C₂₂H₂₂FN₃O₂S.HCl.1 ½H₂O

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:

Sietnick (1985) Involvement of 5-HT₂ receptors in the LSD- and L-5-HTP-induced suppression of lordotic behavior in the female rat. *J. Neural Transm.* **61** 65. PMID: 3872342.

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.

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

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

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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