

Certificate of Analysis

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Product Name: Ketanserin tartrate

Catalog No.: 0908

Batch No.: 7

CAS Number: 83846-83-7

EC Number: 281-062-8

IUPAC Name: 3-[2-[4-(4-Fluorobenzoyl)-1-piperidinyl]ethyl]-2,4[1*H*,3*H*]-quinazolinedione tartrate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₂FN₃O₃·C₄H₆O₆·³/₄H₂O

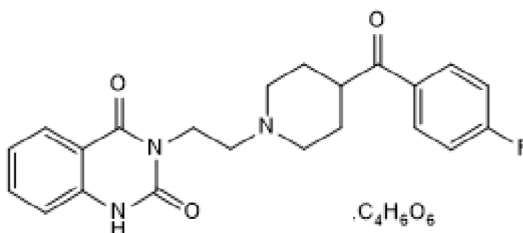
Batch Molecular Weight: 559.03

Physical Appearance: Off White solid

Solubility: water to 10 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.86	5.32	7.52
Found	55.25	5.62	7.85

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

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IUPAC Name: 3-[2-[4-(4-Fluorobenzoyl)-1-piperidinyl]ethyl]-2,4[1*H*,3*H*]-quinazolinedione tartrate

Description:

Ketanserin tartrate is a selective 5-HT_{2A} serotonin receptor antagonist; can also be used to discriminate between 5-HT_{1D} and 5-HT_{1B} receptor subtypes.

Physical and Chemical Properties:

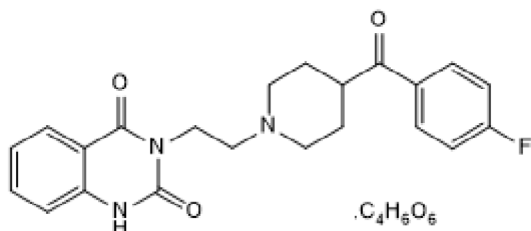
Batch Molecular Formula: C₂₂H₂₂FN₃O₃·C₄H₆O₆· $\frac{3}{4}$ H₂O

Batch Molecular Weight: 559.03

Physical Appearance: Off White solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 mM

DMSO to 100 mM

This product can be slow to dissolve, and extended mixing time (up to 30minutes approx.) with warming to 40°C may be required. Aqueous solutions may appear hazy.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Razzaque et al (1995) Differences in the effects of ketanserin and GR 127935 on 5-HT-receptor mediated responses in rabbit saphenous vein and guinea-pig jugular vein. *Eur.J.Pharmacol.* **283** 199. PMID: 7498311.

Zgombick et al (1995) Ketanserin and ritanserin discriminate between recombinant human 5-HT_{1Dα} and 5-HT_{1Dβ} receptor subtypes. *Eur.J.Pharmacol.* **291** 9. PMID: 8549648.

Leyson et al (1981) Receptor binding profile of R41 468, a novel antagonist at 5-HT₂ receptors. *Life Sci.* **28** 1015. PMID: 6261070.

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