TOCRIS
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Print Date: Jan 11th 2016

Certificate of Analysis

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Product Name: **Ketanserin tartrate** **Catalog No.: 0908** **Batch No.: 4**

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: $C_{22}H_{22}FN_3O_3.C_4H_6O_6.H_2O$

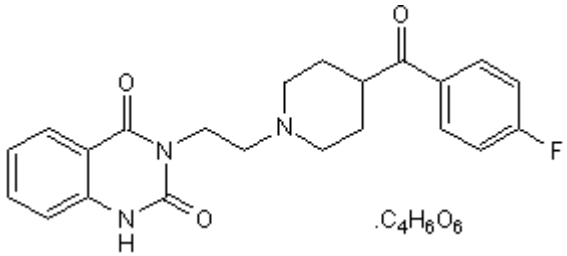
Batch Molecular Weight: 563.54

Physical Appearance: White solid

Solubility: water to 10 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 187 - 189°C

HPLC: Shows 99% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.42	5.37	7.46
Found	55.35	5.53	7.46

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

Description:

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:

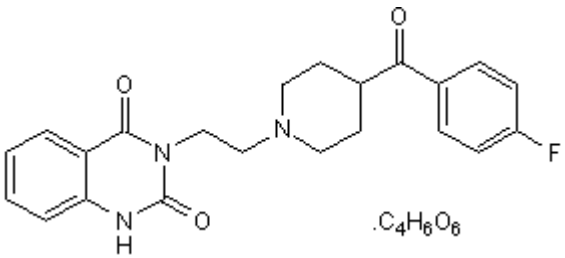
Batch Molecular Formula: $C_{22}H_{22}FN_3O_3.C_4H_6O_6.H_2O$

Batch Molecular Weight: 563.54

Physical Appearance: White solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 10 mM
DMSO to 100 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:

Leyson *et al* (1981) Receptor binding profile of R41 468, a novel antagonist at 5-HT_2 receptors. Life Sci. ***28*** 1015. PMID: 6261070.

Van Nueten *et al* (1981) Vascular effects of ketanserin (R41 468), a novel antagonist of 5-HT_2 serotonergic receptors. J.Pharmacol.Exp.Ther. ***218*** 217. PMID: 6113280.

Zgombick *et al* (1995) Ketanserin and ritanserin discriminate between recombinant human 5-HT1Dα and 5-HT1Dβ receptor subtypes. Eur.J.Pharmacol. ***291*** 9. PMID: 8549648.

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.