Catalog # 10-2490

Ketanserin tartrate

CAS# 83846-83-7

3-[2-[4-(4-Fluorobenzoyl)-1-piperidinyl]ethyl]-2,4(1H,3H)-quinazolinedione tartrate; R41468

Lot # E102393

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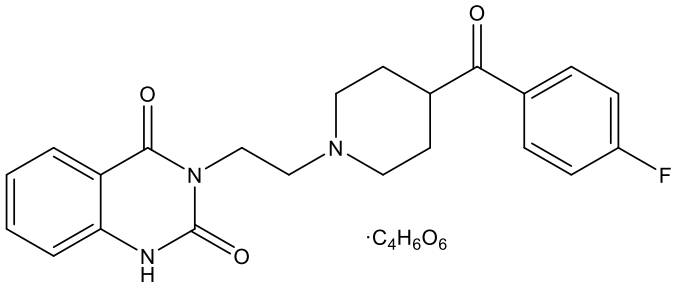

A selective serotonin 5-HT2A receptor antagonist (IC_{50} = 6.3 nM).[1] Also exhibits significant selectivity for the human 5-HT1Dα receptor.[2] Was shown to be effective for the treatment of hypertension following coronary artery surgery.[3] Has been used to disrupt the hallucinogenic effects of psilocybin and to explore cognitive effects of the 5-HT2A receptor.[4]

1) Leysen *et al*. (1981), *Receptor binding profile of R 41 468, a novel antagonist at 5-HT2 receptors*; Life Sci. **28** 1015
2) Zgombick *et al*. (1995), *Ketanserin and ritanserin discriminate between recombinant human 5-HT1D alpha and 5-HT1D beta receptor subtypes*; Eur. J. Pharmacol. **291** 9
3) Vandenbroucke *et al*. (1994), *Use of ketanserin in the treatment of hypertension following coronary artery surgery*; J. Cardiothorac. Vasc. Anesth. **8** P324
4) Quednow *et al*. (2012), *Psilocybin-induced deficits in automatic and controlled inhibition are attenuated by ketanserin in healthy human volunteers*; Neuropsychopharmacology **37** 630

PHYSICAL DATA

Molecular Weight:	545.52
Molecular Formula:	$C_{22}H_{22}FN_3O_3 \cdot C_4H_6O_6$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (30 mg/mL); water (5 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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