

Product Name: Ritanserin

Catalog No.: 1955

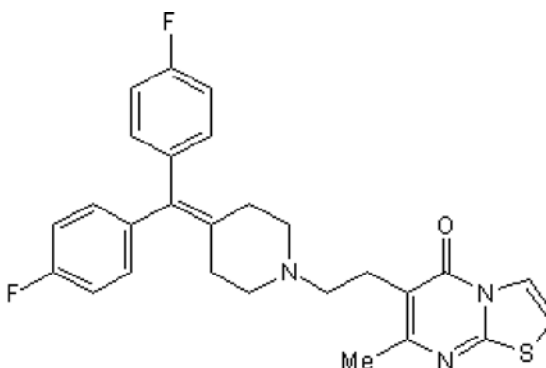
Batch No.: 11

CAS Number: 87051-43-2

IUPAC Name: 6-[2-[4-[Bis(4-fluorophenyl)methylene]-1-piperidinyl]ethyl]-7-methyl-5H-thiazolo[3,2-a]pyrimidin-5-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₅F₂N₃OS
Batch Molecular Weight: 477.57
Physical Appearance: Off White solid
Solubility: ethanol to 25 mM
DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	67.91	5.28	8.8
Found	67.54	5.27	8.76

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

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Description:

Ritanserin is a potent and long-acting 5-HT₂ receptor antagonist (K_i = 0.39 nM). Anxiolytic in vivo.

Physical and Chemical Properties:

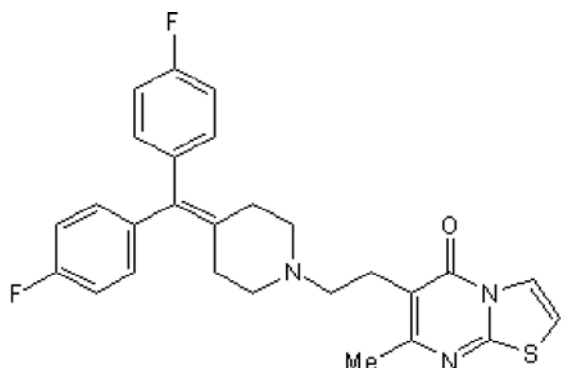
Batch Molecular Formula: C₂₇H₂₅F₂N₃OS

Batch Molecular Weight: 477.57

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 25 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:

Watanabe et al (1992) Syntheses and 5-HT₂ antagonist activity of bicyclic 1,2,4-triazol-3(2H)-one and 1,3,5-triazine-2,4(3H)-dione derivatives. *J.Med.Chem.* **35** 189. PMID: 1732528.

Janssen (1985) Pharmacology of potent and selective S₂-serotonergic antagonists. *J.Cardiovasc.Pharmacol.* **7** S2. PMID: 2412048.

Leysen et al (1985) Receptor-binding properties *in vitro* and *in vivo* of ritanserin. *Mol.Pharmacol.* **27** 600. PMID: 2860558.

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