

Product Name: Risperidone

Catalog No.: 2865

Batch No.: 1

CAS Number: 106266-06-2

IUPAC Name: 3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₇FN₄O₂·1/4H₂O

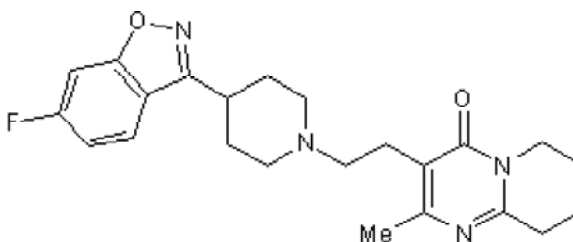
Batch Molecular Weight: 414.98

Physical Appearance: White solid

Solubility: DMSO to 10 mM
ethanol to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.57	6.68	13.5
Found	66.67	6.6	13.49

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

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Description:

Risperidone is an atypical antipsychotic agent that displays 5-HT_{2A} receptor antagonism. Also displays high affinity at D₂ receptors (K_i values are 0.4 and 3.13 nM for 5-HT_{2A} and D₂ receptors respectively).

Physical and Chemical Properties:

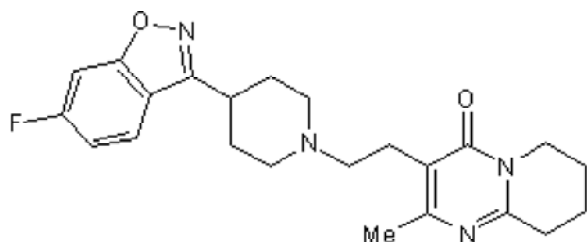
Batch Molecular Formula: C₂₃H₂₇FN₄O₂·½H₂O

Batch Molecular Weight: 414.98

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 mM

ethanol to 10 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:

Wang *et al* (2018) Structure of the D₂ DA receptor bound to the atypical antipsychotic drug risperidone *Nature* **555** 269. PMID: 29466326 .

Stathis *et al* (1996) Risperidone: a novel antipsychotic with many "atypical" properties. *Psychopharmacol.* **127** 181.

Leysen *et al* (1994) Risperidone: a novel antipsychotic with balanced serotonin-DA antagonism, receptor occupancy profile, and pharmacologic activity. *J.Clin.Psychiatry* **55** (Suppl.) 5. PMID: 7520908.

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