

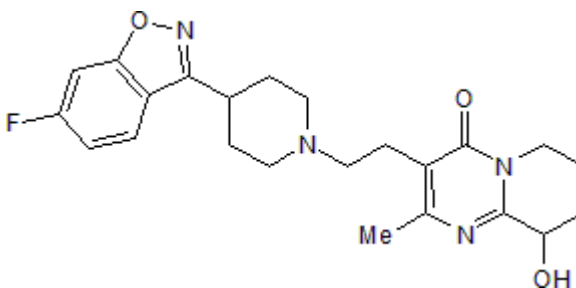
Certificate of Analysis

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Product Name: Paliperidone **Catalog No.:** 4493 **Batch No.:** 1
CAS Number: 144598-75-4
IUPAC Name: 3-[2-[4-(6-Fluoro-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-9-hydroxy-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₇FN₄O₃
Batch Molecular Weight: 426.48
Physical Appearance: White solid
Solubility: DMSO to 10 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.77	6.38	13.14
Found	64.37	6.37	12.97

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

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Description:

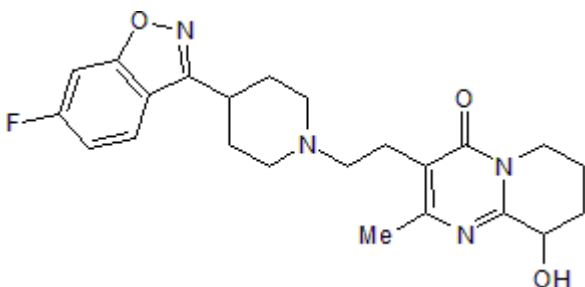
Atypical antipsychotic; metabolite of risperidone (Cat. No. 2865). Exhibits high affinity for 5-HT_{2A} receptors (K_i = 0.4 nM for cloned human 5-HT_{2A} receptors). Also displays nanomolar affinity for human D₂ receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₃H₂₇FN₄O₃
 Batch Molecular Weight: 426.48
 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO 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:

Megens and Awouters et al (1994) In vivo pharmacological profile of 9-hydroxyrisperidone, the major metabolite of the novel antipsychotic risperidone. **33** 399.

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

Schotte et al (1996) Risperidone compared with new and reference antipsychotic drugs: in vitro and in vivo receptor binding. *Psychopharmacology* **124** 57. PMID: 8935801.

Dremencov et al (2007) Distinct electrophysiological effects of paliperidone and risperidone on the firing activity of rat serotonin and norepinephrine neurons. *Psychopharmacology* **194** 63. PMID: 17530476.

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