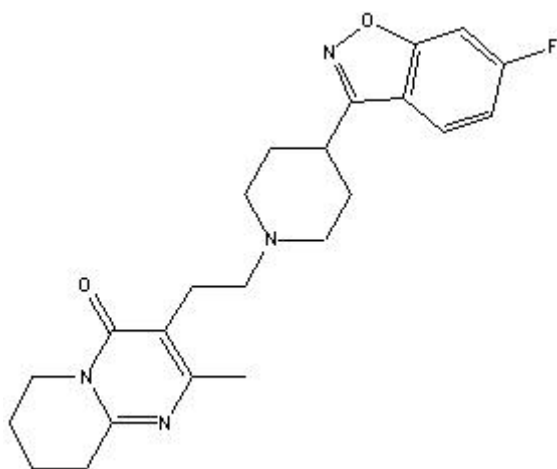


## TECHNICAL INFORMATION

Catalog Number: 193714  
**Risperidone**

**Structure:**



**Molecular Formula:** C<sub>23</sub>H<sub>27</sub>FN<sub>4</sub>O<sub>2</sub>

**Formula Weight:** 410.49

**CAS #** 106266-06-2

**Synonym:** 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

**Description:** D<sub>2</sub> Dopamine receptor antagonist; 5-HT<sub>2</sub> serotonin receptor antagonist; antipsychotic.

**Physical Description:** White to off white crystalline powder

**Recommended Storage:** Room temperature

**Solubility:** Freely soluble in methylene chloride; soluble in ethanol (17 mg/ml); practically insoluble in water. Solubility in 45% (w/v) aqueous 2-hydroxypropyl-β-cyclodextrin (1.7 mg/ml); sparingly soluble in alcohol; will also dissolve in dilute acid solutions.

**References:**

- Leysen, J.E. Janssen, P.M., Megens, A.A., Schotte, A. "Risperidone: A novel antipsychotic with balanced serotonin-dopamine antagonism, receptor, occupancy profile, and pharmacologic activity." *J. Clin. Psychiatry*, v. **55**, suppl. 5-12 (1994).
- Sumiyoshi, T., et.al. "In vivo dopamine D<sub>2</sub> and serotonin 5-HT<sub>2</sub> receptor binding study of risperidone and haloperidol." *Pharmacol. Biochem. Behav.*, v. **47**, 553-557 (1994).
- Sleight, A.J., Koek, W., Bigg, D.C. "Binding of antipsychotic drugs at alpha 1A- and alpha 1B-adrenoceptors: Risperidone is selective for the alpha 1B-adrenoceptors." *Eur. J. Pharmacol.*, v. **238**, 407-410 (1993).
- Assie, M.B., Sleight, A.J., Koek, W. "Biphasic displacement of [<sup>3</sup>H]YM-09151-2 binding in the rat brain by thioridazine, risperidone and clozapine, but not by other antipsychotics." *Eur. J. Pharmacol.*, v. **237**, 183-189 (1993).