Product Information



Risperidone

Item No. 13629

CAS Registry No.: 106266-06-2

Formal Name: 3-[2-[4-(6-fluoro-1,2-benzisoxazol-

> 3-yl)-1-piperidinyl]ethyl]-6,7,8,9tetrahydro-2-methyl-4H-pyrido[1,2-a]

pyrimidin-4-one

Synonyms: Apexidone, Psychodal, R 64766,

MF: C23H27FN4O2

FW: 410.5**Purity:** ≥95%

Stability: ≥2 years at -20°C Supplied as: A crystalline solid UV/Vis.: λ_{max} : 237, 279 nm

Laboratory Procedures

For long term storage, we suggest that risperidone be stored as supplied at -20°C. It should be stable for at least two years. Risperidone is supplied as a crystalline solid. A stock solution may be made by dissolving the risperidone in the solvent of choice. Risperidone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of risperidone in these solvents is approximately 0.3, 2, and 0.1 mg/ml, respectively.

Risperidone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, risperidone should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Risperidone has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Risperidone is a longer-acting benzisoxazole derivative used for treating schizophrenia, and also the psychotic, affective, or behavioral symptoms associated with other disorders. 1,2 This second-generation antipsychotic was designed to antagonize both D_2 and 5-HT $_{2A}$ receptors. 3,4 It has little effect on cholinergic and β -adrenergic receptors but does affect α_2 -adrenergic and histamine H_1 receptors. 3,4 In drug discrimination studies, risperidone antagonized LSD in a complete manner, and without displaying any LSD-like agonist activity. 1

References

- 1. Colpaert, F.C. Discovering risperidone: The LSD model of psychopathology. Nat. Rev. Drug Discov. 2, 315-320 (2003).
- Rainer, M.K. Risperidone long-acting injection: A review of its long term safety and efficacy. Neuropsychiatr. Dis. Treat. **4(5)**, 919-927 (2008).
- 3. Edwards, J.G. Risperidone for schizophrenia. BMJ 308(6940), 1311-1312 (1994).
- Bymaster, F.P., Calligaro, D.O., Falcone, J.F., et al. Radioreceptor binding profile of the atypical antipsychotic olanzapine. Neuropsychopharmacology 14(2), 87-96 (1996).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/13629

WARNING: This product is for laboratory research only: not for administration to humans. Not for human or veterinary DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical

Mailing address

1180 E. Ellsworth Road Ann Arbor, MI 48108 USA

Phone

(800) 364-9897 (734) 971-3335

(734) 971-3640

custserv@caymanchem.com

www.caymanchem.com