Risperidone
Item No. 13629

CAS Registry No.: 106266-06-2
Formal Name: 3-[2-[(4-ethyl-1,2-benzisoxazol-3-yl)-1-piperidinyl]ethyl]-6,7,8,9-tetrahydro-2-methyl-4H-pyrido[1,2-a]pyrimidin-4-one
Synonyms: Apexidone, Psychodal, R 64766, Spiron
MF: C23H27FN4O2
FW: 410.5
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: \( \lambda_{\text{max}}^\text{UV} \): 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 D2 and 5-HT2A receptors.3,4 It has little effect on cholinergic and \( \beta \)-adrenergic receptors but does affect \( \alpha_1 \)-adrenergic and histamine H1 receptors.3,4 In drug discrimination studies, risperidone antagonized LSD in a complete manner, and without displaying any LSD-like agonist activity.1

References

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