Ziprasidone (hydrochloride hydrate)
Item No. 15031

CAS Registry No.: 138982-67-9
Formal Name: 5-[2-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]ethyl]-6-chloro-1,3-dihydro-2H-indol-2-one, monohydrochloride, monohydrate
MF: C21H21ClN4OS • HCl [H2O]
FW: 467.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ max 211, 314 nm

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/15031

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 Safety Data Sheet, which has been sent to your institution. For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

LABORATORY PROCEDURES

For long term storage, we suggest that ziprasidone (hydrochloride hydrate) be stored as supplied at -20°C. It should be stable for at least two years.

Ziprasidone (hydrochloride hydrate) is supplied as a crystalline solid. A stock solution may be made by dissolving the ziprasidone (hydrochloride hydrate) in the solvent of choice. Ziprasidone (hydrochloride hydrate) is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of ziprasidone (hydrochloride hydrate) in these solvents is approximately 1.2 and 0.16 mg/ml, respectively.

Ziprasidone (hydrochloride hydrate) is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ziprasidone (hydrochloride hydrate) should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Ziprasidone (hydrochloride hydrate) has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Ziprasidone is the hydrochloride salt of a benzisothiazolylpiperazine analog structurally related to the atypical antipsychotic drug tiospirone that antagonizes both central serotonin 5-HT2A (Ki = 0.42 nM) and dopamine D2 (Ki = 4.8 nM) receptors. It is also a potent agonist at 5-HT1A receptors (Ki = 3.4 nM), increasing cortical dopamine release which may offset negative effects associated with dopamine D2 antagonism, and an inverse agonist at 5-HT1B and 5-HT1D receptors (pKis = 8.8 and 8.6, respectively).2,3

References

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