Citalopram (hydrobromide)

Item No. 14572

CAS Registry No.: 59729-32-7
Formal Name: 1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl)-1,3-dihydro-5-isobenzofuranacarbonitrile, monohydrobromide
Synonyms: Bonitrile, Lu 10-171, Nitalapram, Prepram
MF: C_{27}H_{27}FN_{2}O • HBr
FW: 405.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid

Laboratory Procedures
For long term storage, we suggest that citalopram (hydrobromide) be stored as supplied at -20°C. It should be stable for at least two years.

Citalopram (hydrobromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the citalopram (hydrobromide) in the solvent of choice. Citalopram (hydrobromide) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of citalopram (hydrobromide) in these solvents is approximately 1, 30, and 30 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of citalopram (hydrobromide) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of citalopram (hydrobromide) in PBS, pH 7.2, is approximately 2mg/ml. We do not recommend storing the aqueous solution for more than one day.

Citalopram is a selective serotonin reuptake inhibitor which is commonly prescribed as an antidepressant.1-3 It also acts as an antagonist of nicotinic acetylcholine receptors (IC_{50} = 0.93 µM).4

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/14572

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

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 email to your institution.

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