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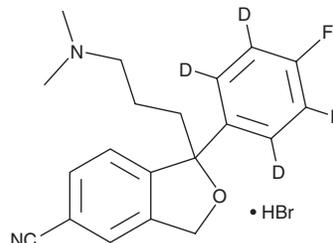
PRODUCT INFORMATION



Citalopram-d₄ (hydrobromide)

Item No. 22102

CAS Registry No.: 1219803-58-3
Formal Name: 1-[3-(dimethylamino)propyl]-1-(4-fluorophenyl-d₄)-1,3-dihydro-5-isobenzofurancarbonitrile, monohydrobromide
Synonyms: Bonitrile-d₄, Nitalapram-d₄, Prepram-d₄
MF: C₂₀H₁₇D₄FN₂O • HBr
FW: 409.3
Chemical Purity: ≥98% (Citalopram)
Deuterium Incorporation: ≥99% deuterated forms (d₁-d₄); ≤1% d₀
Supplied as: A solid
Storage: Room temperature
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Citalopram-d₄ (hydrobromide) is intended for use as an internal standard for the quantification of citalopram (Item No. 14572) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Citalopram-d₄ (hydrobromide) is supplied as a solid. A stock solution may be made by dissolving the citalopram-d₄ (hydrobromide) in the solvent of choice. Citalopram-d₄ (hydrobromide) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of citalopram-d₄ (hydrobromide) in ethanol is approximately 1 mg/ml and approximately 30 mg/ml in DMSO and DMF.

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-d₄ (hydrobromide) can be prepared by directly dissolving the solid in aqueous buffers. The solubility of citalopram-d₄ (hydrobromide) in PBS, pH 7.2, is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

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 (IC₅₀ = 0.93 μM).⁴

References

1. Milan, M.J., Gobert, A., Rivet, J.-M., *et al.* *Eur. J. Neurosci.* **12**(3), 1079-1095 (2000).
2. Boothman, L.J., Mitchell, S.N., and Sharp, T. *Neuropharmacology* **50**(6), 726-732 (2006).
3. Bymaster, F.P., Zhang, W., Carter, P.A., *et al.* *Psychopharmacology (Berl)* **160**(4), 353-361 (2002).
4. Shytle, R.D., Silver, A.A., Lukas, R.J., *et al.* *Mol. Psychiatry* **7**(6), 525-535 (2002).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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