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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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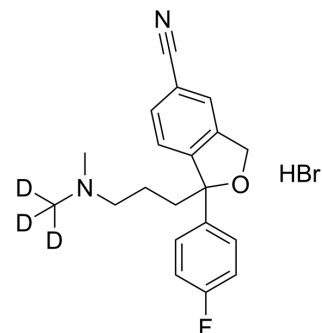
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Citalopram-d₃ hydrobromide

Cat. No.:	HY-B1287S
Molecular Formula:	C ₂₀ H ₁₉ D ₃ BrFN ₂ O
Molecular Weight:	408.32
Target:	Isotope-Labeled Compounds; Serotonin Transporter; Autophagy
Pathway:	Others; Neuronal Signaling; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Citalopram-d₃ ((±)-Citalopram-d₃) hydrobromide is deuterium labeled Citalopram (hydrobromide). Citalopram hydrobromide is a selective serotonin reuptake inhibitor (SSRI). Citalopram hydrobromide inhibits 5-HT uptake into synaptosomes with an IC₅₀ of 1.8 nM. Citalopram hydrobromide inhibits the 5-HT uptake in rabbit blood platelets with an IC₅₀ of 14 nM. Antidepressant effect^{[1][2]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. J Hyttel. Citalopram--pharmacological profile of a specific serotonin uptake inhibitor with antidepressant activity. *Prog Neuropsychopharmacol Biol Psychiatry*. 1982;6(3):277-95.
- [3]. Laurent Sakka, et al. Assessment of citalopram and escitalopram on neuroblastoma cell lines. Cell toxicity and gene modulation. *Oncotarget*. 2017 Jun 27;8(26):42789-42807.
- [4]. F Pollier, et al. Serotonin reuptake inhibition by citalopram in rat strains differing for their emotionality. *Neuropsychopharmacology*. 2000 Jan;22(1):64-76.

Caution: Product has not been fully validated for medical applications. For research use only.

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