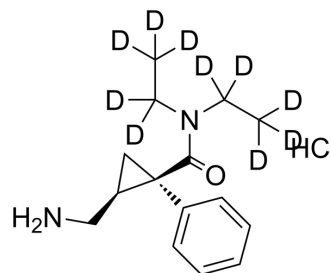


Milnacipran-d₁₀ hydrochloride

Cat. No.:	HY-B0168S
CAS No.:	1217774-40-7
Molecular Formula:	C ₁₅ H ₁₃ D ₁₀ ClN ₂ O
Molecular Weight:	292.87
Target:	Serotonin Transporter; Isotope-Labeled Compounds
Pathway:	Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Milnacipran-d ₁₀ (hydrochloride) is the deuterium labeled Milnacipran hydrochloride. Milnacipran hydrochloride is a serotonin-norepinephrine reuptake inhibitor (SNRI) used in the clinical treatment of fibromyalgia[1][2].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Moret C, et al. Biochemical profile of midalcipran (F 2207), 1-phenyl-1-diethyl-aminocarbonyl-2-aminomethyl-cyclopropane (Z) hydrochloride, a potential fourth generation antidepressant drug. *Neuropharmacology*. 1985 Dec;24(12):1211-9.
- [3]. Briley M, et al. Preclinical pharmacology of milnacipran. *Int Clin Psychopharmacol*. 1996 Sep;11 Suppl 4:9-14.

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

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