(±)-Duloxetine-d3 hydrochloride

Cat. No.: HY-B0161ES

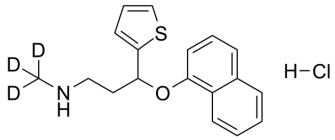
Molecular Formula: $C_{18}H_{17}D_3ClNOS$

Molecular Weight: 336.89

Target: Serotonin Transporter

Pathway: Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(±)-Duloxetine-d3 (hydrochloride) is deuterium labeled (±)-Duloxetine (hydrochloride). (±)-Duloxetine ((Rac)-Duloxetine) hydrochloride is the racemate of Duloxetine hydrochloride. Duloxetine hydrochloride, a serotonin-norepinephrine reuptake inhibitor, can be used for diabetic neuropathic pain and fibromyalgia as well as major depressive disorder research[1].
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]. Mermi O, et al. [Duloxetine-Induced Hypertension: A Case Report]. Turk Psikiyatri Derg. 2016;27(1):67-69.

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