Frovatriptan-d3 hydrochloride

Cat. No.: HY-B1658S

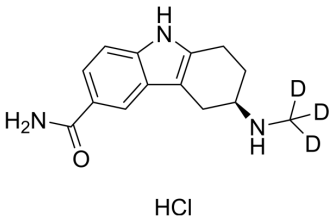
Molecular Formula: $C_{14}H_{15}D_3ClN_3O$

Molecular Weight: 282.78

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

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



BIOLOGICAL ACTIVITY

Description	Frovatriptan-d_3 (hydrochloride) is the deuterium labeled Frovatriptan[1]. Frovatriptan is a potent 5-HT1B//D receptor agonist and has the highest 5-HT1B potency in the triptan class. Frovatriptan is apparently cerebroselective. Frovatriptan is efficacious and even superior in some endpoints also when taken during the headache phase in migraine attacks with aura[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 Feb;53(2):211-216.

[2]. Stefan Evers, et al. Efficacy of frovatriptan as compared to other triptans in migraine with aura.

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