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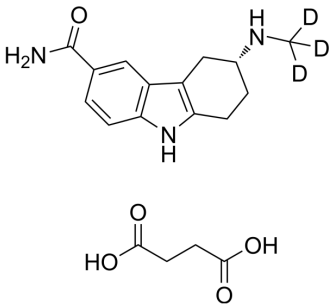
Frovatriptan-d_3 succinate

Cat. No.:	HY-B1658BS
Molecular Formula:	$C_{18}H_{20}D_3N_3O_5$
Molecular Weight:	364.41
Target:	5-HT Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Frovatriptan-d_3 (succinate) is deuterium labeled Frovatriptan (succinate). Frovatriptan succinate ((R)-Frovatriptan succinate) is a potent, high affinity, selective and orally active 5-HT1B (pK50 of 8.2) and 5-HT1D receptor agonist. Frovatriptan succinate exhibits >10-fold selectivity for 5-HT1B and 5-HT1D over 5-HT1A, 5-HT1F, and 5-HT7 and >1000-fold selectivity over other 5-HT, dopamine, histamine H1, and α1-adrenoceptor. Frovatriptan succinate has the potential for migraine research[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]. Comer MB. Et al. Pharmacology of the selective 5-HT(1B/1D) agonist frovatriptan. Headache. 2002 Apr;42 Suppl 2:S47-53.

[3]. Kelman L. Review of frovatriptan in the treatment of migraine. Neuropsychiatr Dis Treat. 2008 Feb;4(1):49-54.

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