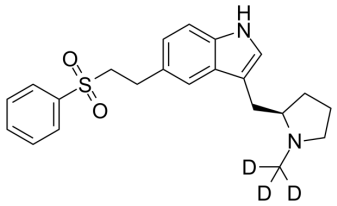
Eletriptan-d3

Cat. No.:	HY-A0039S
CAS No.:	1287040-94-1
Molecular Formula:	$C_{22}H_{23}D_3N_2O_2S$
Molecular Weight:	385.54
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	Eletriptan-d3 (UK-116044-d3) is the deuterium labeled Eletriptan hydrobromide. Eletriptan hydrobromide is a selective 5-HT1B and 5-HT1D receptor agonist with K_i of 0.92 nM and 3.14 nM, respectively[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]. Napier C, et al. Characterisation of the 5-HT receptor binding profile of eletriptan and kinetics of [3H]eletriptan binding at human 5-HT1B and 5-HT1D receptors. Eur J Pharmacol, 1999, 368(2-3), 259-268.

[3]. MaassenVanDenBrink A, et al. Craniovascular selectivity of eletriptan and sumatriptan in human isolated blood vessels. Neurology, 2000, 55(10), 1524-1530.

[4]. Gupta P, et al. The in vivo pharmacological profile of eletriptan (UK-116,044): a potent and novel 5-HT(1B/1D) receptor agonist. Eur J Pharmacol, 2000, 398(1), 73-81.

[5]. Hoskin KL, et al. The 5-hydroxytryptamine1B/1D/1F receptor agonists eletriptan and naratriptan inhibit trigeminovascular input to the nucleus tractus solitarius in the cat. Brain Res, 2004, 998(1), 91-99.

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