Sarpogrelate-d3 hydrochloride

Cat. No.: HY-10564S

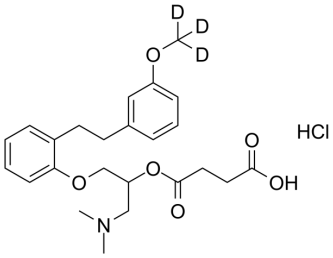
Molecular Formula: $C_{24}H_{29}D_3ClNO_6$

Molecular Weight: 468.99

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	Sarpogrelate-d3 hydrochloride (MCI-9042-d3) is the deuterium labeled Sarpogrelate hydrochloride. Sarpogrelate hydrochloride (MCI-9042) is a selective 5-HT_2R antagonist, with pK_is of 8.52, 6.57, and 7.43 for 5-HT_{2A}, 5-HT_{2B}, and 5-HT_{2C} receptors, respectively. Sarpogrelate hydrochloride displays selectivity over 5-HT_1, 5-HT_3, 5-HT_4, α_1-, α_2- and β-adrenoreceptor, histamine H_1, H_2 and muscarinic M_3 receptors. Sarpogrelate hydrochloride can be used for the research of vascular disease associated with thrombosis[1][2][3].
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]. Rashid M, et, al. Identification of the binding sites and selectivity of sarpogrelate, a novel 5-HT2 antagonist, to human 5-HT2A, 5-HT2B and 5-HT2C receptor subtypes by molecular modeling. Life Sci. 2003 May 30;73(2):193-207.

[3]. Maruyama K, et, al. MCI-9042: high affinity for serotonergic receptors as assessed by radioligand binding assay. J Pharmacobiodyn. 1991 Apr;14(4):177-81.

[4]. Kataoka H, et, al. Inhibitory Effect of Serotonin Antagonist on Leukocyte-Endothelial Interactions In Vivo and In Vitro. PLoS One. 2016 Jan 29;11(1):e0147929.

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