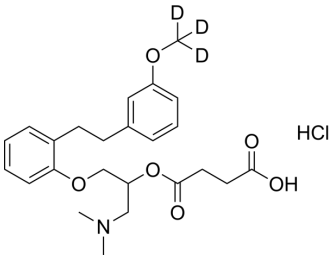
Sarpogrelate-d_3 hydrochloride

Cat. No.:	HY-10564S
Molecular Formula:	$C_{24}H_{29}D_3ClNO_6$
Molecular Weight:	468.99
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	Sarpogrelate-d_3 (hydrochloride) is the deuterium labeled Sarpogrelate hydrochloride. Sarpogrelate hydrochloride (MCI-9042) is a selective 5-HT2R antagonist, with pKis of 8.52, 6.57, and 7.43 for 5-HT2A, 5-HT2B, and 5-HT2C receptors, respectively. Sarpogrelate hydrochloride displays selectivity over 5-HT1, 5-HT3, 5-HT4, α1-, α2- and β-adrenoreceptor, histamine H1, H2 and muscarinic M3 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]. 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.

[2]. 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.

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