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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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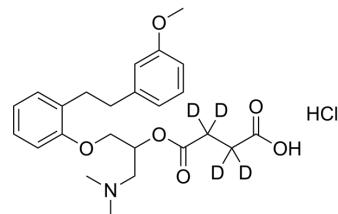
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Sarpogrelate-d₄ hydrochloride

Cat. No.:	HY-10564S1
Molecular Formula:	C ₂₄ H ₂₈ D ₄ ClNO ₆
Molecular Weight:	469.99
Target:	Isotope-Labeled Compounds; 5-HT Receptor
Pathway:	Others; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Sarpogrelate-d₄ (MCI-9042-d₄) hydrochloride is deuterium labeled Sarpogrelate (hydrochloride). Sarpogrelate hydrochloride (MCI-9042) is a selective 5-HT₂R 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-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][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;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-HT_{2A}, 5-HT_{2B} and 5-HT_{2C} 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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