(Z)-Olopatadine-d_3 hydrochloride

Cat. No.: HY-B0426AS1

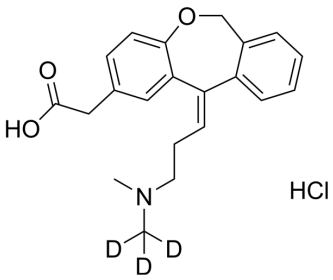
Molecular Formula: $C_{21}H_{21}D_3ClNO_3$

Molecular Weight: 376.89

Target: Histamine Receptor; Endogenous Metabolite; Isotope-Labeled Compounds

Pathway: GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Metabolic Enzyme/Protease; Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(Z)-Olopatadine-d_3 (hydrochloride) is deuterium labeled Olopatadine (hydrochloride).
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]. Ohmori, K., et al., Pharmacological, pharmacokinetic and clinical properties of olopatadine hydrochloride, a new antiallergic drug. Jpn J Pharmacol, 2002. 88(4): p. 379-97.

[3]. Tamura, T., et al., Effect of olopatadine and other histamine H1 receptor antagonists on the skin inflammation induced by repeated topical application of oxazolone in mice. Pharmacology, 2005. 75(1): p. 45-52.

[4]. Yanni, J.M., et al., The in vitro and in vivo ocular pharmacology of olopatadine (AL-4943A), an effective anti-allergic/antihistaminic agent. J Ocul Pharmacol Ther, 1996. 12(4): p. 389-400.

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