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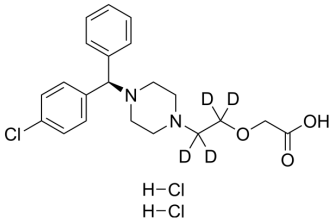
Levocetirizine-d_4 dihydrochloride

Cat. No.:	HY-B0814S
Molecular Formula:	$C_{21}H_{23}D_4Cl_3N_2O_3$
Molecular Weight:	465.83
Target:	Histamine Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Levocetirizine-d_4 (dihydrochloride) is the deuterium labeled Levocetirizine. Levocetirizine ((R)-Cetirizine) is a third-generation peripheral H1-receptor antagonist. Levocetirizine is an antihistaminic agent which is the R-enantiomer of Cetirizine. Levocetirizine has a higher affinity for the histamine H1-receptor than (S)-Cetirizine and can effectively treat allergic rhinitis and chronic idiopathic urticaria[1].
IC_{50} & Target	H_1 Receptor
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]. Lohar P, et al. Simultaneous bioanalysis and pharmacokinetic interaction study of acebrophylline, levocetirizine and pranlukast in Sprague-Dawley rats. Biomed Chromatogr. 2019 Dec;33(12):e4672.

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