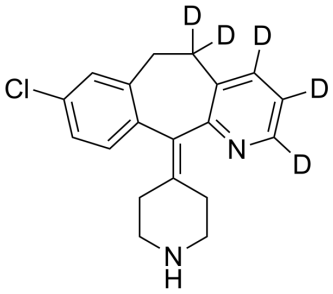
Desloratadine-d_5

Cat. No.:	HY-B0539S3
CAS No.:	1020719-34-9
Molecular Formula:	$C_{19}H_{14}D_5ClN_2$
Molecular Weight:	315.85
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	Desloratadine-d_5 is deuterium labeled Desloratadine. Desloratadine (Sch34117) is the orally active major metabolite of the nonsedating H1-antihistamine Loratadine. Desloratadine is a selective H1-receptor antagonist that has anti-allergic and anti-inflammatory activities[1][2].
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]. Anthes, J.C., et al., Biochemical characterization of desloratadine, a potent antagonist of the human histamine H(1) receptor. Eur J Pharmacol, 2002. 449(3): p. 229-37.

[3]. Geha, R.S. and E.O. Meltzer, Desloratadine: A new, nonsedating, oral antihistamine. J Allergy Clin Immunol, 2001. 107(4): p. 751-62.

[4]. McClellan K, et al. Desloratadine. Drugs. 2001;61(6):789-797.

[5]. Schroeder, J.T., et al., Inhibition of cytokine generation and mediator release by human basophils treated with desloratadine. Clin Exp Allergy, 2001. 31(9): p. 1369-77.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA