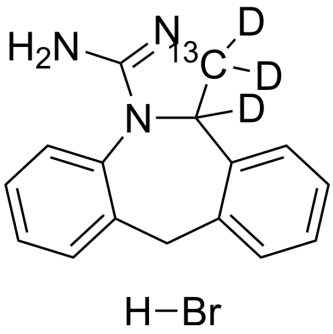
Epinastine-$^{13}C,d_3$ hydrobromide

Cat. No.:	HY-B0640S
Molecular Formula:	$C_{15}{}^{13}CH_{13}D_3BrN_3$
Molecular Weight:	334.23
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	Epinastine-$^{13}C,d_3$ (hydrobromide) is the ^{13}C- and deuterium labeled Epinastine. Epinastine (WAL801) is an antihistamine and mast cell stabilizer. Epinastine is a potent, selective and orally-active histamine H1 receptor antagonist. Epinastine also inhibits IL-8 release and has an antiallergic action[1][2][3][4].
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[68]. 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):211-223.

[2]. Fugner, A., et al., In vitro and in vivo studies of the non-sedating antihistamine epinastine. Arzneimittelforschung, 1988. 38(10): p. 1446-53.

[3]. Kamei, C., et al., Antiallergic effect of epinastine (WAL 801 CL) on immediate hypersensitivity reactions: (I). Elucidation of the mechanism for histamine release inhibition. Immunopharmacol Immunotoxicol, 1992. 14(1-2): p. 191-205.

[4]. Kohyama, T., et al., A novel antiallergic drug epinastine inhibits IL-8 release from human eosinophils. Biochem Biophys Res Commun, 1997. 230(1): p. 125-8.

[5]. Roeder, T., J. Degen, and M. Gewecke, Epinastine, a highly specific antagonist of insect neuronal octopamine receptors. Eur J Pharmacol, 1998. 349(2-3): p. 171-7.

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

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