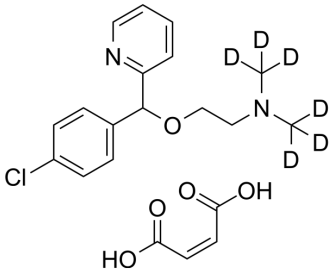
Carbinoxamine-d_6 maleate

Cat. No.:	HY-B1589AS
Molecular Formula:	$C_{20}H_{17}D_6ClN_2O_5$
Molecular Weight:	412.9
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	Carbinoxamine-d_6 (maleate) is the deuterium labeled Carbinoxamine maleate salt. Carbinoxamine maleate salt is a histamine H1 receptor antagonist.
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]. Harikrishnan A, et al. The cooperative effect of Lewis pairs in the Friedel-Crafts hydroxyalkylation reaction: a simple and effective route for the synthesis of (±)-carbinoxamine. Org Biomol Chem. 2015 Mar 28;13(12):3633-47.

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