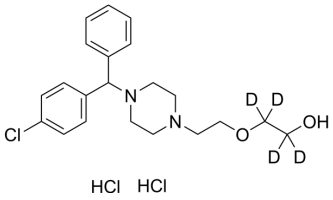
Hydroxyzine-d_4 dihydrochloride

Cat. No.:	HY-B0548AS1
CAS No.:	1219805-91-0
Molecular Formula:	$C_{21}H_{25}D_4Cl_3N_2O_2$
Molecular Weight:	451.85
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Hydroxyzine-d_4 (dihydrochloride) is the deuterium labeled Hydroxyzine dihydrochloride. Hydroxyzine dihydrochloride, a benzodiazepine antihistamine agent, acts as a orally active histamine H1-receptor and serotonin antagonist. Hydroxyzine dihydrochloride has anxiolytic effect and can be used forthe research of generalised anxiety disorder[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]. Nikita Shekhar Sawantdesai, et al. Evaluation of anxiolytic effects of aripiprazole and hydroxyzine as a combination in mice. J Basic Clin Pharm. 2016 Sep;7(4):97-104.

[3]. Minogiannis, P., et al., Hydroxyzine inhibits neurogenic bladder mast cell activation. Int J Immunopharmacol, 1998. 20(10): p. 553-63.

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