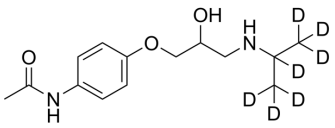
Practolol-d_7

Cat. No.:	HY-119802S
CAS No.:	2714414-11-4
Molecular Formula:	$C_{14}H_{15}D_7N_2O_3$
Molecular Weight:	273.38
Target:	Adrenergic Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Neuronal Signaling; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Practolol-d_7 is the deuterium labeled Practolol. Practolol is a potent and selective β1-adrenergic receptor antagonist. Practolol can be used for the research of cardiac arrhythmias[1][2][3].
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]. Iakovidis D, et, al. In vitro activity of RO363, a beta1-adrenoceptor selective agonist. Br J Pharmacol. 1980 Apr;68(4):677-85.

[3]. Adashi EY, et, al. Stimulation of beta 2-adrenergic responsiveness by follicle-stimulating hormone in rat granulosa cells in vitro and in vivo. Endocrinology. 1981 Jun;108(6):2170-8.

[4]. Marshall RJ, et, al. Comparative effects of propranolol and practolol in the early stages of experimental canine myocardial infarction. Br J Pharmacol. 1976 Jun;57(2):295-303.

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