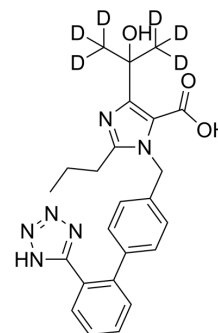


Olmesartan-d₆

Cat. No.:	HY-17004S1
CAS No.:	1185144-74-4
Molecular Formula:	C ₂₄ H ₂₀ D ₆ N ₆ O ₃
Molecular Weight:	452.54
Target:	Angiotensin Receptor; Isotope-Labeled Compounds
Pathway:	GPCR/G Protein; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Olmesartan-d ₆ (RNH-6270-d ₆) is the deuterium labeled Olmesartan. Olmesartan (RNH-6270) is an angiotensin II receptor (AT1R) antagonist used to treat high blood pressure[1][2].
IC₅₀ & Target	AT1 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]. Bakhtiari E, et al. Synergistic, cytotoxic and apoptotic activities of olmesartan with NF-κB inhibitor against HeLa human cell line. *Toxicol Mech Methods.* 2015;25(8):614-21.
- [3]. Tanno T, et al. Olmesartan Inhibits Cardiac Hypertrophy in Mice Overexpressing Renin Independently of Blood Pressure: Its Beneficial Effects on ACE2/Ang(1-7)/Mas Axis and NADPH Oxidase Expression. *J Cardiovasc Pharmacol.* 2016 Jun;67(6):503-9.
- [4]. Yanagihara H, et al. Effects of telmisartan and olmesartan on insulin sensitivity and renal function in spontaneously hypertensive rats fed a high fat diet. *J Pharmacol Sci.* 2016 Jul;131(3):190-7.

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

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