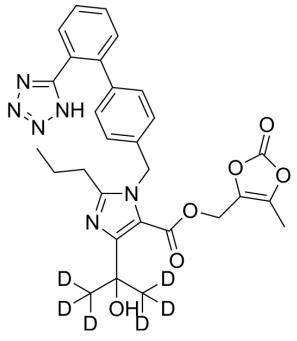
Olmesartan medoxomil-d_6

Cat. No.:	HY-17005S
CAS No.:	1127298-67-2
Molecular Formula:	$C_{29}H_{24}D_6N_6O_6$
Molecular Weight:	564.62
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 medoxomil-d_6 (CS 866-d6) is the deuterium labeled Olmesartan medoxomil. Olmesartan medoxomil is a potent and selective angiotensin AT1 receptor inhibitor with IC50 of 66.2 μM[1][2].
IC_{50} & 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]. Senda A, et al. Effects of Angiotensin II Receptor Blockers on Metabolism of Arachidonic Acid via CYP2C8. Biol Pharm Bull. 2015;38(12):1975-9.

[3]. Shah S, et al. Simultaneous Quantitative Analysis of Olmesartan Medoxomil and Amlodipine Besylate in Plasma by High-performance Liquid Chromatography Technique. J Young Pharm. 2012 Apr;4(2):88-94.

[4]. Gu J, et al. Olmesartan Prevents Microalbuminuria in db/db Diabetic Mice Through Inhibition of Angiotensin II/p38/SIRT1-Induced Podocyte Apoptosis. Kidney Blood Press Res. 2016 Nov 21;41(6):848-864.

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