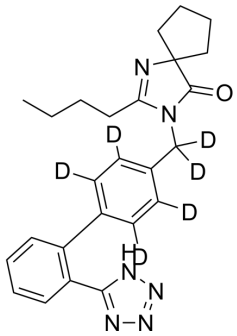
Irbesartan-d6-1

Cat. No.:	HY-B0202S2
CAS No.:	2375621-21-7
Molecular Formula:	$C_{25}H_{22}D_6N_6O$
Molecular Weight:	434.57
Target:	Apoptosis; Angiotensin Receptor
Pathway:	Apoptosis; GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Irbesartan-d_6-1 is the deuterium labeled Irbesartan[1]. Irbesartan (SR-47436) is an orally active Ang II type 1 (AT1) receptor blocker (ARB). Irbesartan can relax the blood vessels, low blood pressure and increase the supply of blood and oxygen to the heart. Irbesartan can be used for the research of high blood pressure, heart failure, and diabetic kidney disease[2].
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 Feb;53(2):211-216.

[2]. Schupp M, et al. Angiotensin type 1 receptor blockers induce peroxisome proliferator-activated receptor-gamma activity. Circulation. 2004 May 4;109(17):2054-7. Epub 2004 Apr 26.

[3]. Ruiz E, et al. Importance of intracellular angiotensin II in vascular smooth muscle cell apoptosis: inhibition by the angiotensin AT1 receptor antagonist irbesartan. Eur J Pharmacol. 2007 Jul 19567(3):231-9. Epub 2007 Apr 6.

[4]. Yong Zhong, et al. Irbesartan may relieve renal injury by suppressing Th22 cells chemotaxis and infiltration in Ang II-induced hypertension. Int Immunopharmacol

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