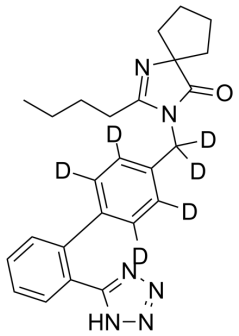
Irbesartan-d6

Cat. No.:	HY-B0202S1
Molecular Formula:	$C_{25}H_{22}D_6N_6O$
Molecular Weight:	434.57
Target:	Angiotensin Receptor; Apoptosis
Pathway:	GPCR/G Protein; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Irbesartan-d6 is the deuterium labeled Irbesartan. Irbesartan is a highly potent and specific angiotensin II type 1 (AT1) receptor antagonist with IC_{50} of 1.3 nM.
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]. 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 19;567(3):231-9. Epub 2007 Apr 6.

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