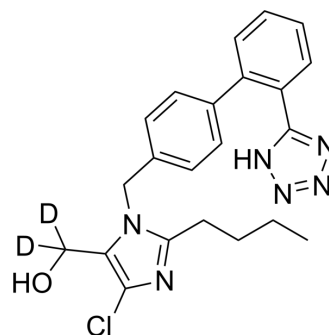


Losartan-d₂

Cat. No.:	HY-17512S3
CAS No.:	1030936-22-1
Molecular Formula:	C ₂₂ H ₂₁ D ₂ ClN ₆ O
Molecular Weight:	424.92
Target:	Angiotensin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Losartan-d ₂ is the deuterium labeled Losartan[1]. Losartan is an angiotensin II receptor antagonist, competing with the binding of angiotensin II to AT1 receptors with IC ₅₀ of 20 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 Feb;53(2):211-216.
- [2]. Burnier, M. Angiotensin II type 1 receptor blockers. *Circulation*, 2001. 103(6): p. 904-12.; Ashry, O., et al. Evidence for expression and function of angiotensin II receptor type 1 in pulmonary epithelial cells. *Respir Physiol Neurobiol*, 2014.

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

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