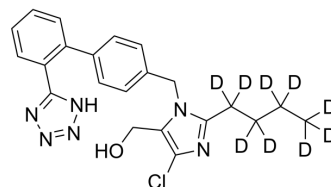


## Losartan-d<sub>9</sub>

<b>Cat. No.:</b>	HY-17512S4
<b>CAS No.:</b>	1030937-18-8
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>14</sub> D <sub>9</sub> ClN <sub>6</sub> O
<b>Molecular Weight:</b>	431.97
<b>Target:</b>	Angiotensin Receptor
<b>Pathway:</b>	GPCR/G Protein
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Losartan-d <sub>9</sub> 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 <sub>50</sub> of 20 nM.
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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- [2]. Burnier, M. Angiotensin II type 1 receptor blockers. *Circulation*, 2001. 103(6): p. 904-12.
- [3]. Ashry, O., et al. Evidence for expression and function of angiotensin II receptor type 1 in pulmonary epithelial cells. *Respir Physiol Neurobiol*, 2014.
- [4]. Choi, C.H., et al. Angiotensin II type I receptor and miR-155 in endometrial cancers: synergistic antiproliferative effects of anti-miR-155 and losartan on endometrial cancer cells. *Gynecol Oncol*, 2012. 126(1): p. 124-31.
- [5]. Habashi, J.P., et al. Losartan, an AT1 antagonist, prevents aortic aneurysm in a mouse model of Marfan syndrome. *Science*, 2006. 312(5770): p. 117-21.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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