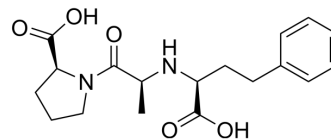


Enalaprilat

Cat. No.:	HY-B0231A
CAS No.:	76420-72-9
Molecular Formula:	C ₁₈ H ₂₄ N ₂ O ₅
Molecular Weight:	348.39
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Enalaprilat (MK-422 anhydrous), the active metabolite of the oral proagent Enalapril, is a potent, competitive and long-acting angiotensin-converting enzyme (ACE) inhibitor, with an IC ₅₀ of 1.94 nM. Enalaprilat can be used for the research of hypertension ^{[1][2][3]} .
IC₅₀ & Target	IC ₅₀ : 1.94 nM (ACE) ^[1]
In Vitro	Enalaprilat (1 nM-10 μM; 24 h) attenuates the IGF-I induced neonatal rat cardiac fibroblast growth (30% reduction) in a concentration-dependent fashion, with an IC ₅₀ of 90 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Enalaprilat (0.01%-2.9% in the eyedrop solution) shows significant intraocular pressure (IOP)-lowering effect in rabbits ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Nat Commun. 2023 May 2;14(1):2523.
- Cell Biol Toxicol. 2021 Feb 22.

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REFERENCES

- [1]. Ceconi C, et, al. Angiotensin-converting enzyme (ACE) inhibitors have different selectivity for bradykinin binding sites of human somatic ACE. Eur J Pharmacol. 2007 Dec 22;577(1-3):1-6.
- [2]. Eickels M, et, al. Angiotensin-converting enzyme (ACE) inhibition attenuates insulin-like growth factor-I (IGF-I) induced cardiac fibroblast proliferation. Br J Pharmacol. 2000 Dec;131(8):1592-6.
- [3]. Loftsson T, et, al. Enalaprilat and enalapril maleate eyedrops lower intraocular pressure in rabbits. Acta Ophthalmol. 2010 May;88(3):337-41.

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

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