



# LKT Laboratories, Inc.

## Enalaprilat Dihydrate

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### Product Information

**Product ID** E5200  
**CAS No.** 84680-54-6  
**Chemical Name** N-[(1S)-Carboxy- 3-phenylpropyl]-L-alanyl-L-proline dihydrate

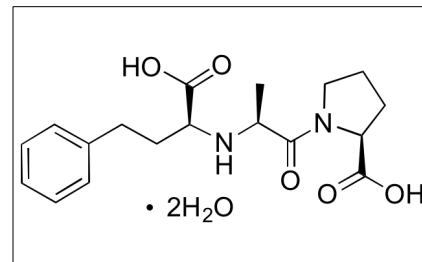
**Synonym** Enalaprilic acid, Vasotec IV

**Formula**  $C_{18}H_{24}N_2O_5 \cdot 2H_2O$   
**Formula Wt.** 384.42  
**Melting Point** 148-151 °C  
**Purity** ≥98%

**Solubility** Slightly soluble in water (14 mg/mL at 60 oC) DMSO (64 mg/mL), methanol (14 mg/mL).

**Store Temp** Ambient  
**Ship Temp** Ambient

**Description** Enalaprilat is the active metabolite of enalapril. Enalapril is an angiotensin-converting enzyme (ACE) inhibitor that is clinically used to treat hypertension, heart failure, and diabetic nephropathy. Enalapril exhibits antihypertensive activity. Enalapril prevents and reverses renovascular hypertension-induced smooth muscle hypertrophy, collagen deposition, carotid media thickness growth, and other parameters of arterial remodeling. Additionally, enalapril improves endothelial function in migraine sufferers by increasing levels of NO.



**Bulk quantities available upon request**

Product ID	Size
E5200	10 mg
E5200	50 mg
E5200	100 mg

**References** Chen JL, Shang QH, Hu W, et al. Role of TGF- $\beta$ 1/Smads pathway in carotid artery remodeling in renovascular hypertensive rats and prevention by Enalapril and Amlodipine. *J Geriatr Cardiol.* 2012 Jun;9(2):185-91. PMID: 22916067.

Bilan VP, Salah EM, Bastacky S, et al. Diabetic nephropathy and long-term treatment effects of rosiglitazone and enalapril in obese ZSF1 rats. *J Endocrinol.* 2011 Sep;210(3):293-308. PMID: 21680617.

Javanmard SH, Sonbolestan SA, Heshmat-Ghahdarjani K, et al. Enalapril improves endothelial function in patients with migraine: A randomized, double-blind, placebo-controlled trial. *J Res Med Sci.* 2011 Jan;16(1):26-32. PMID: 21448379.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.