



# LKT Laboratories, Inc.

## Losartan Potassium

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### Product Information

**Product ID** L5873

**CAS No.** 124750-99-8

**Chemical Name** 2-Butyl-4-chloro-1-[[2'-(1H-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1H-imidazole-5-methanol monopotassium salt

**Synonym** DuPont-753, Losaprex, Lortaan, Neo-Lotan, Oscaar

**Formula** C<sub>22</sub>H<sub>22</sub>ClN<sub>6</sub>O K

**Formula Wt.** 461.01

**Melting Point** 263-265°C

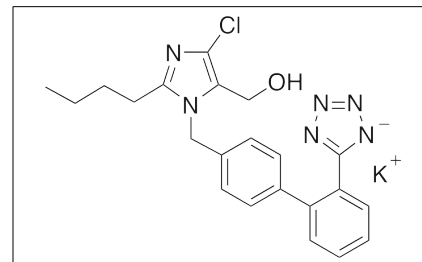
**Purity** ≥98%

**Solubility** Soluble in water to 100 mM,  
DMSO to 100 mM, and  
alcohol.

**Store Temp** Ambient

**Ship Temp** Ambient

**Description** Losartan is an inhibitor of the angiotensin II type 1 (AT1) receptor that exhibits antihypertensive, anti-fibrotic, and nephroprotective activities. In animal models of obstructive nephropathy, losartan decreases levels of α-SMA and collagen type 1 and inhibits phosphorylation of STAT3, suppressing renal tubular fibrosis. Losartan also inhibits the endothelial-to-mesenchymal transition through indirect inhibition of ERK activation, potentially showing anti-fibrotic benefit after myocardial infarction. TEST!!!!!!



### Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
L5873	1 g	\$48.60
L5873	5 g	\$156.30
L5873	25 g	\$503.60

**References** He P, Li D, Zhang B. Losartan attenuates renal interstitial fibrosis and tubular cell apoptosis in a rat model of obstructive nephropathy. *Mol Med Rep.* 2014 Aug;10(2):638-44. PMID: 24912579.

Wylie-Sears J, Levine RA, Bischoff J. Losartan inhibits endothelial-to-mesenchymal transformation in mitral valve endothelial cells by blocking transforming growth factor-β-induced phosphorylation of ERK. *Biochem Biophys Res Commun.* 2014 Apr 18;446(4):870-5. PMID: 24632204.

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Apostolakis S, Krambovitis E, Vlata Z, et al. CX3CR1 receptor is up-regulated in monocytes of coronary artery diseased patients: impact of pre-inflammatory stimuli and renin-angiotensin system modulators. *Thromb Res.* 2007;121(3):387-395. PMID: 17521710.

Koseki N, Deguchi J, Yamashita A, et al. Establishment of a novel experimental protocol for drug-induced seizure liability screening based on a locomotor activity assay in zebrafish. *J Toxicol Sci.* 2014 Aug;39(4):579-600. PMID: 25056783.

Nagata T, Fukuzawa T, Takeda M, et al. Tofogliflozin, a novel sodium-glucose co-transporter 2 inhibitor, improves renal and pancreatic function in db/db mice. *Br J Pharmacol.* 2013 Oct;170(3):519-531. PMID: 23751087.

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