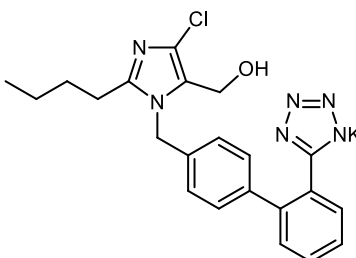


Catalog # 10-2294
Losartan potassium

124750-99-8

2-Butyl-4-chloro-1-[[2'-(1H-tetrazol-5-yl)(1,1'-biphenyl)-4-yl]methyl]-1H-imidazole-5-methanol, potassium salt
DUP-753

Lot # X105240



Non-peptide angiotensin II receptor antagonist.^{1,2} Clinically useful antihypertensive agent.³ Inhibits collagen I synthesis.⁴ Induces SIRT1 expression and activity and reduces hepatic injury in a rat reduced-size orthotopic liver transplantation model.⁵ Displays neuroprotective effects along with nimesulide against chronic fatigue stress.⁶ Displays myocardial antifibrotic activity.⁷

- 1) Merck 14:5583
- 2) Chiu *et al.* (1990), *Nonpeptide angiotensin II receptor antagonists. VII. Cellular and biochemical pharmacology of DuP 753, an orally active antihypertensive agent*; J. Pharmacol. Exp. Ther., **252** 711
- 3) McIntyre *et al.* (1997), *Losartan, an orally active angiotensin (AT1) receptor antagonist: a review of its efficacy and safety in essential hypertension*; Pharmacol. Ther., **74** 181
- 4) Diop-Frimpong *et al.* (2011), *Losartan inhibits collagen I synthesis and improves the distribution and efficacy of nanotherapeutics in tumors*; Proc. Natl. Acad. Sci. USA, **108** 2909
- 5) Pantazi *et al.* (2015), *Losartan activates sirtuin 1 in rat reduced-size orthotopic liver transplantation*; World J. Gastroenterol., **21** 8021
- 6) Kumar *et al.* (2015), *Neuroprotective mechanism of losartan and its interaction with nimesulide against chronic fatigue stress*; Inflammopharmacology, **23** 291
- 7) Miguel-Carrasco *et al.* (2017), *Mechanisms underlying the cardiac antifibrotic effects of losartan metabolites*; Sci. Rep. **7** 41865

PHYSICAL DATA

Molecular Weight:	461.01
Molecular Formula:	C ₂₂ H ₂₂ ClKN ₆ O
Purity:	99% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 20 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

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