

Product Name: Losartan potassium

Catalog No.: 3798

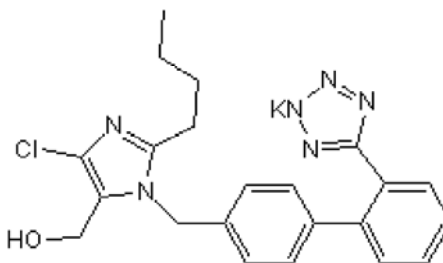
Batch No.: 4

CAS Number: 124750-99-8

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₂ClKN₆O
Batch Molecular Weight: 461
Physical Appearance: White solid
Solubility: water to 100 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.32	4.81	18.23
Found	57.09	4.76	18.12

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Losartan potassium is a selective non-peptide angiotensin AT₁ receptor antagonist. Inhibits the contractile effects of angiotensin II on rabbit aorta and jugular vein (pA₂ = 8.27). Orally active antihypertensive agent. Attenuates lung damage in a mouse model of SARS-CoV infection.

Physical and Chemical Properties:

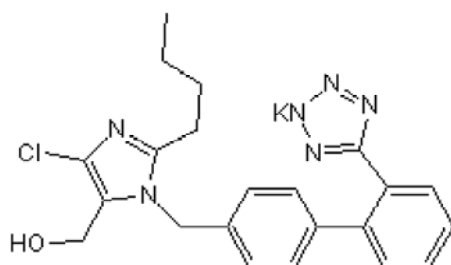
Batch Molecular Formula: C₂₂H₂₂ClKN₆O

Batch Molecular Weight: 461

Physical Appearance: White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kuba et al (2005) A crucial role of angiotensin converting enzyme 2 (ACE2) in SARS coronavirus-induced lung injury. *Nat.Med.* **11** 875. PMID: 16007097.

Rhaleb et al (1991) DuP 753 is a specific antagonist for the angiotensin receptor. *Hypertension* **17** 480. PMID: 1672862.

Wong et al (1990) Nonpeptide angiotensin II receptor antagonists. VIII. Characterization of functional antagonism displayed by DuP an orally active antihypertensive agent. *J.Pharmacol.Exp.Ther.* **252** 719. PMID: 2179531.

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