
Product Data Sheet

Product Name: Lisinopril
Cat. No.: GC16307

Chemical Properties

Cas. No. 76547-98-3

Chemical Name (2S)-1-[(2S)-6-amino-2-[[[(1S)-1-carboxy-3-phenylpropyl]amino]hexanoyl]pyrrolidine-2-carboxylic acid

SMILES C1CC(N(C1)C(=O)C(CCCCN)NC(CCC2=CC=CC=C2)C(=O)O)C(=O)O

Formula $C_{21}H_{31}N_3O_5$ M.Wt 405.49

Solubility PBS (pH 7.2): 1 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure

Background

Lisinopril (MK-521) is an angiotensin-converting enzyme inhibitor, used in the treatment of hypertension, congestive heart failure, and heart attacks.

Lisinopril is a potent, competitive inhibitor of angiotensin-converting enzyme (ACE), the enzyme responsible for the conversion of angiotensin I (ATI) to angiotensin II (ATII). ATII regulates blood pressure and is a key component of the renin-angiotensin-aldosterone system (RAAS). Lisinopril may be used to treat hypertension and symptomatic congestive heart failure, to improve survival in certain individuals following myocardial infarction, and to prevent progression of renal disease in hypertensive patients with diabetes mellitus and microalbuminuria or overt nephropathy[1][2].

References:

[1]. Andujar-Sanchez, M., V. Jara-Perez, and A. Camara-Artigas, Thermodynamic determination of the binding constants of angiotensin-converting enzyme inhibitors by a displacement method. FEBS Lett, 2007. 581(18): p. 3449-54.

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

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[2]. Song, J.C. and C.M. White, Clinical pharmacokinetics and selective pharmacodynamics of new angiotensin converting enzyme inhibitors: an update. Clin Pharmacokinet, 2002. 41(3): p. 207-24.

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