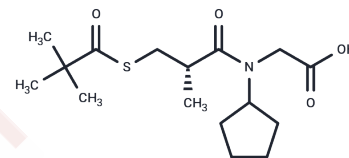


Pivalopril

Chemical Properties

CAS No. :	81045-50-3
Formula:	C ₁₆ H ₂₇ N _O ₄ S
Molecular Weight:	329.45
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Pivalopril, a novel orally active angiotensin-converting enzyme inhibitor, acts by blocking the conversion of angiotensin I to angiotensin II.
Targets(IC50)	RAAS, Angiotensin-converting Enzyme (ACE)
In vivo	Pivalopril, a novel compound featuring a hindered sulfur group, exhibits promising properties as an orally effective angiotensin-converting enzyme (ACE) inhibitor and antihypertensive agent, showcasing superior effects compared to Captopril in various studies. When administered to conscious normotensive dogs and spontaneously hypertensive rats (SHR), Pivalopril demonstrates dose-related antagonism of angiotensin I (AngI) pressor effects and a notable reduction in mean arterial pressure, highlighting its potency and effectiveness at incremental doses ranging from 0.01-1.0 mg/kg orally. Notably, when dosed at 100 mg/kg per day, Pivalopril outperforms Captopril in lowering mean arterial pressure. The ED ₅₀ values for Pivalopril and Captopril further affirm its competitive efficacy in both dogs and rats. Furthermore, Pivalopril shows a similar duration of action to Captopril at equieffective doses, underscoring its potential as a potent antihypertensive treatment option.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0354 mL	15.1768 mL	30.3536 mL
5 mM	0.6071 mL	3.0354 mL	6.0707 mL
10 mM	0.3035 mL	1.5177 mL	3.0354 mL
50 mM	0.0607 mL	0.3035 mL	0.6071 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Burnier M, et al. RHC 3659: a new orally active angiotensin converting enzyme inhibitor in normal volunteers. Br J Clin Pharmacol. 1981 Dec;12(6):893-9.

Wolf PS, et al. Angiotensin-converting enzyme inhibitory and antihypertensive activities of pivalopril (RHC 3659-(S)). Fed Proc. 1984 Apr;43(5):1322-5.

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