Product Data Sheet

Product Name: Pivalopril (Pivopril)
Cat. No.: GC32544

Chemical Properties

Cas. No.	81045-50-3		
SMILES	O=C(O)CN(C1CCCC1)C([C@H](C)CSC(C(C)(C)C)=O)=O		
Formula	$C_{16}H_{27}NO_4S$	M.Wt	329.45
Solubility	DMSO : 90 mg/mL (273.18 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	Pivalopril (Pivopril)		

Background

Pivalopril is a new orally active angiotensin converting enzyme (ACE) inhibitor.

Pivalopril is a new compound with a hindered sulfur group that has been compared to Captopril for oral angiotensin-converting enzyme (ACE) inhibition in rats and dogs and antihypertensive activity in rats. In separate groups of conscious normotensive rats, Pivalopril (0.03-1.0 mg/kg, orally [p.o.]) produces a dose-related antagonism of angiotensin I (AngI)-induced pressor effects. The ED50 for Pivalopril and Captopril is 0.1 mg/kg. In conscious normotensive dogs, Pivalopril (incremental doses of 0.01-1.0 mg/kg, p.o.) produces a dose-related antagonism of AngI pressor effects. The ED50 is 0.17 mg/kg for Pivalopril and 0.06 mg/kg for Captopril. At equieffective doses the two compounds have similar durations of action. In sodium-deficient, conscious spontaneously hypertensive rats (SHR), Pivalopril (1-100 mg/kg, p.o.) produces a dose-related reduction in mean arterial pressure. The potency and duration are similar to those of Captopril. In the sodium-replete SHR, 5 days of oral dosing with Pivalopril (100 mg/kg per day) decreases mean arterial pressure more effectively than Captopril (100 mg/kg per day). It is concluded that Pivalopril is a potent, orally effective ACE inhibitor and antihypertensive agent[2].

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

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[1]. 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. [2]. 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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