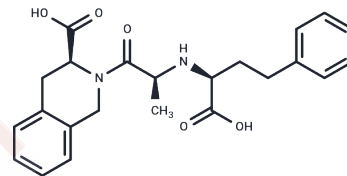


Quinaprilat

Chemical Properties

CAS No. :	82768-85-2
Formula:	C ₂₃ H ₂₆ N ₂ O ₅
Molecular Weight:	410.46
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	Quinaprilat is an orally active ACE inhibitor, the active metabolite of quinapril, and a substrate for OAT3. It blocks the conversion of angiotensin I to angiotensin II, exhibiting antihypertensive activity.
Targets(IC50)	Others,Angiotensin-converting Enzyme (ACE)
In vitro	Quinaprilat (5μM) promotes its own active renal secretion by mediating the interaction with hOAT3, increasing the uptake by HEK293 cells to 25 times the original level, with a Km value of 13.4μM for its binding [1]. Quinaprilat (100 nM, 20 minutes) can activate the B1 receptor, thereby inhibiting PKC activity and leading to NO release from HLMVE cells [2].
In vivo	Quinaprilat (3 mg/kg, once daily for 6 days) was administered via oral gavage and demonstrated certain antihypertensive effects in male SHR rats when used in combination with other medications [1].

Solubility Information

Solubility	DMSO: Soluble,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4363 mL	12.1815 mL	24.3629 mL
5 mM	0.4873 mL	2.4363 mL	4.8726 mL
10 mM	0.2436 mL	1.2181 mL	2.4363 mL
50 mM	0.0487 mL	0.2436 mL	0.4873 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

Haodan Yuan, et al. Renal organic anion transporter-mediated drug-drug interaction between gemcabene and quinapril. *J Pharmacol Exp Ther.* 2009 Jul;330(1):191-7.

Sinisa Stanisavljevic, et al. Angiotensin I-converting enzyme inhibitors block protein kinase C epsilon by activating bradykinin B1 receptors in human endothelial cells. *J Pharmacol Exp Ther.* 2006 Mar;316(3):1153-8.

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