Quinaprilat

Cat. No.:	HY-127026		Scree
CAS No.:	82768-85-2		ning
Molecular Formula:	$C_{23}H_{26}N_2O_5$		Lib
Molecular Weight:	410.46		rari
Target:	Angiotensin-converting Enzyme (ACE)		es
Pathway:	Metabolic Enzyme/Protease	о ^т он ^о ···	•
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.		Prote

BIOLOGICA	LACTIVITY	
Description	Quinaprilat is an orally active r blocks the conversion of angio agent and vasodilator ^{[1][2]} .	non-mercapto Angiotensin Converting Enzyme (ACE) inhibitor, the active metabolite of Quinapril. Quinaprilat specific tensin I to the vasoconstrictor angiotensin II and inhibits the degradation of bradykinin. Quinaprilat acts as anti-hype
In Vitro	Quinaprilat (5 μM) mediates th uptake of quinaprilat to 25-fold Quinaprilat (100 nM, 20 min) ca microvascular endothelial (HLI MCE has not independently co	e interaction of organic anion transporter 3 (hOAT3) which can promote renal active secretion of quinapril that incre d in HEK293 cells and hOAT3 affinity K _m for quinaprilat is 13.4 μM ^[1] . an inhibit the activity of protein kinase C (PKC) by activing the B1 receptor resulting in the release of NO in human lur MVE) cells ^[2] . nfirmed the accuracy of these methods. They are for reference only.
In Vivo	Quinaprilat (oral gavage, 3 mg rats (SHRs) ^[1] . MCE has not independently co	/kg, every day, 6 days) has some anti-hypertensive effect by combining with other drugs in male spontaneous hypert
	Animal Model:	Male spontaneous nypertensive rats (SHRS) (230-250 g) ⁽²³
	Dosage:	3 mg/kg
	Administration:	Oral gavage; every day; 6 days
	Result:	Caused a significant drop in blood pressure from day 1 to day 5 by combining quinapril and gemcabene while e alone had no effect. Decreased plasma concentration of quinaprilat on the fifth day.
	Animal Model:	
	Dosage:	
	Administration:	
	Result:	Result: The pharmacokinetic parameters of quinaprilat

Product Data Sheet



Parameter	
AUC(0-24 h)	4.62 µM/h
Ae(0-24 h)	23.1 µg
renal clearance	31.0 mL/h

REFERENCES

[1]. Haodan Yuan, et al. Renal organic anion transporter-mediated drug-drug interaction between gemcabene and quinapril. J Pharmacol Exp Ther. 2009 Jul;330(1 doi: 10.1124/jpet.108.149476. Epub 2009 Apr 6.

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

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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA