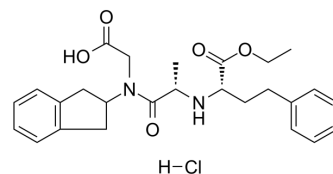


Delapril hydrochloride

Cat. No.:	HY-107337
CAS No.:	83435-67-0
Molecular Formula:	C ₂₆ H ₃₃ ClN ₂ O ₅
Molecular Weight:	489
Target:	Angiotensin-converting Enzyme (ACE)
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (511.25 mM; Need ultrasonic)				
	H ₂ O : 1.72 mg/mL (3.52 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	Solvent Concentration	Mass 1 mg	5 mg	10 mg
		1 mM	2.0450 mL	10.2249 mL	20.4499 mL
		5 mM	0.4090 mL	2.0450 mL	4.0900 mL
10 mM		0.2045 mL	1.0225 mL	2.0450 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.25 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.25 mM); Clear solution 3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.25 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Delapril hydrochloride is an angiotensin-converting enzyme (ACE) inhibitor for the treatment of cardiovascular diseases ^[1] .
IC₅₀ & Target	ACE ^[1]
In Vivo	Delapril (3 mg/kg; administered orally for 2 weeks) exerts potent ACE inhibitory activity in spontaneously hypertensive rat (SHR) ^[1] . Delapril (1-10 mg/kg; orally) exerts a marked and long-lasting antihypertensive action in various experimental models of hypertension ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	SHR ^[1]
Dosage:	3 mg/kg
Administration:	Administered orally; 2 weeks
Result:	Exerted potent ACE inhibitory activity.
Animal Model:	2-kidney, 1-clip hypertensive Rats, Dogs, and SHR ^[1]
Dosage:	1-10 mg/kg
Administration:	Oral
Result:	Exerted a marked and long-lasting antihypertensive action.

REFERENCES

[1]. Razzetti R, et al. Pharmacokinetic and pharmacologic properties of delapril, a lipophilic nonsulfhydryl angiotensin-converting enzyme inhibitor. Am J Cardiol. 1995 Jun 16;75(18):7F-12F.

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

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