Quinapril hydrochloride

Cat. No.: HY-B0477

CAS No.: 82586-55-8

Molecular Formula: $C_{25}H_{31}ClN_2O_5$

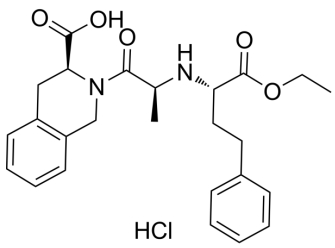
Molecular Weight: 474.98

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 : ≥ 100 mg/mL (210.54 mM)

H_2O : ≥ 50 mg/mL (105.27 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.1054 mL	10.5268 mL	21.0535 mL
5 mM	0.4211 mL	2.1054 mL	4.2107 mL
10 mM	0.2105 mL	1.0527 mL	2.1054 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: PBS
   Solubility: 100 mg/mL (210.54 mM); Clear solution; Need ultrasonic and warming and heat to 60°C
2. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.26 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.26 mM); Clear solution
4. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.26 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Quinapril (hydrochloride) (CI-906) is a proagent that belongs to the angiotensin-converting enzyme (ACE) inhibitor class of medications.

IC_{50} & Target

ACE[1].

In Vitro	Quinapril (hydrochloride) (CI-906) is an angiotensin-converting enzyme inhibitor (ACE inhibitor) used in the treatment of hypertension and congestive heart failure. Quinapril is rapidly de-esterified after absorption to quinaprilat (the active diacid metabolite), a potent angiotensin converting enzyme (ACE) inhibitor[1][2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Song, J.C. and C.M. White, Clinical pharmacokinetics and selective pharmacodynamics of new angiotensin converting enzyme inhibitors: an update. Clin Pharmacokinet, 2002. 41(3): p. 207-24.

[2]. Culy, C.R. and B. Jarvis, Quinapril: a further update of its pharmacology and therapeutic use in cardiovascular disorders. Drugs, 2002. 62(2): p. 339-85.

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