

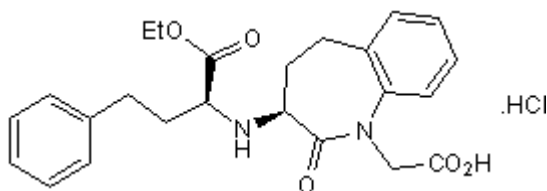
Certificate of Analysis

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Product Name: Benazepril hydrochloride **Catalog No.:** 2578 **Batch No.:** 2
CAS Number: 86541-74-4
IUPAC Name: (3S)-3-[[[(1S)-1-(Ethoxycarbonyl)-3-phenylpropyl]amino]-2,3,4,5-tetrahydro-2-oxo-1H-1-benzazepine-1-acetic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₈N₂O₅·HCl
Batch Molecular Weight: 460.96
Physical Appearance: White solid
Solubility: water to 50 mM
DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.54	6.34	6.08
Found	62.33	6.32	6

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Description:

Non-peptide angiotensin-converting enzyme (ACE) inhibitor. Reduces blood pressure and myocardial hypertrophy in spontaneous hypertensive rats.

Physical and Chemical Properties:

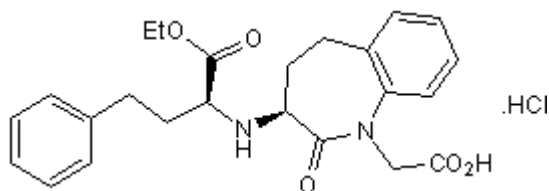
Batch Molecular Formula: C₂₄H₂₈N₂O₅.HCl

Batch Molecular Weight: 460.96

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

water to 50 mM
DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Takemori et al (1991) Effect of benazepril hydrochloride on cardiac hypertrophy in spontaneous hypertensive rats. *Arzneim.-Forsch.* **41** 612.

Ishibashi et al (1991) Hemodynamic effects of benazepril, an angiotensin-converting enzyme inhibitor, as studied in conscious normotensive dogs. *Cardiovas.Drugs Ther.* **5** 635.

Yamamoto et al (1991) General pharmacology of the novel angiotensin converting enzyme inhibitor benazepril hydrochloride. Effects on cardiovascular, visceral and renal functions and on hemodynamics. *Arzneim.-Forsch.* **41** 913.

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