Product Name: Benazepril hydrochloride  
Catalog No.: 2578  
Batch No.: 2

CAS Number: 86541-74-4  
IUPAC Name: (3S)-3-[(1S)-1-(Ethoxycarbonyl)-3-phenylpropylamino]-2,3,4,5-tetrahydro-2-oxo-1H-1-benzazepine-1-acetic acid hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $\text{C}_{24}\text{H}_{28}\text{N}_{2}\text{O}_{5}\cdot\text{HCl}$

**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:**

![Molecular structure of Benazepril hydrochloride]

2. ANALYTICAL DATA

**HPLC:** Shows >99.9% purity

$^1\text{H NMR:}$ Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**
- Carbon: Theoretical 62.54, Found 62.33
- Hydrogen: Theoretical 6.34, Found 6.32
- Nitrogen: Theoretical 6.08, Found 6.00
**Product Name:** Benazepril hydrochloride  
**CAS Number:** 86541-74-4  
**IUPAC Name:** (3S)-3-[(1S)-1-(Ethoxycarbonyl)-3-phenyl(proply)amino]-2,3,4,5-tetrahydro-2-oxo-1H-1-benzazepine-1-acetic acid hydrochloride

**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:** C<sub>24</sub>H<sub>30</sub>N<sub>2</sub>O<sub>5</sub>·HCl  
- **Batch Molecular Weight:** 460.96  
- **Physical Appearance:** White solid  
- **Minimum Purity:** >99%

**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:**


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*Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use*

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