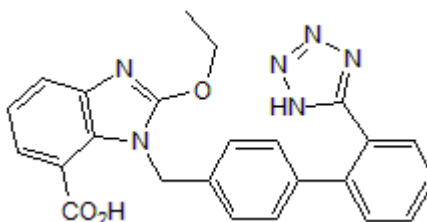


# Certificate of Analysis

**Product Name:** Candesartan **Catalog No.:** 4791 **Batch No.:** 1  
**CAS Number:** 139481-59-7  
**IUPAC Name:** 2-Ethoxy-1-[[2'-(1*H*-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1*H*-benzimidazole-7-carboxylic acid

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{24}H_{20}N_6O_3 \cdot \frac{1}{4}H_2O$   
**Batch Molecular Weight:** 444.95  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 10 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.79	4.64	18.89
Found	64.67	4.63	18.78

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

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**Description:**

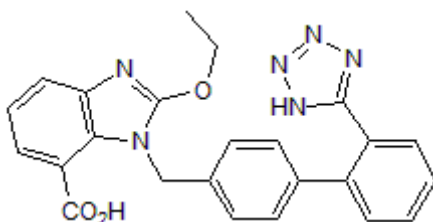
Angiotensin II receptor 1 (AT<sub>1</sub>) antagonist (IC<sub>50</sub> values are 1.12 and 2.86 nM in bovine adrenal cortex and rabbit aorta, respectively). Exhibits antihypertensive effects in animal models. Also available as a prodrug, candesartan cilexetil (Cat. No. 4792).

**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>24</sub>H<sub>20</sub>N<sub>6</sub>O<sub>3</sub>·¼H<sub>2</sub>O  
Batch Molecular Weight: 444.95  
Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Shibouta et al** (1993) Pharmacological profile of a highly potent and long-acting angiotensin II receptor antagonist, 2-ethoxy-1-[[2'-(1*H*-tetrazol-5-yl)biphenyl-4-yl]methyl]-1*H*-benzimidazole-7-carboxylic acid (CV-11974), and its prodrug, (±)-1-(cyclohexyloxycarbonyloxy)-ethyl 2-ethoxy-1-[[2'-(1*H*-tetrazol-5-yl)biphenyl-4-yl]methyl]-1*H*-benzimidazole-7-carboxylate (TCV-116). *J.Pharmacol.Exp.Ther.* **266** 114. PMID: 8331552.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol to 10 mM with gentle warming

**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.

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