

## Certificate of Analysis

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**Product Name:** Candesartan cilexetil

**Catalog No.:** 4792

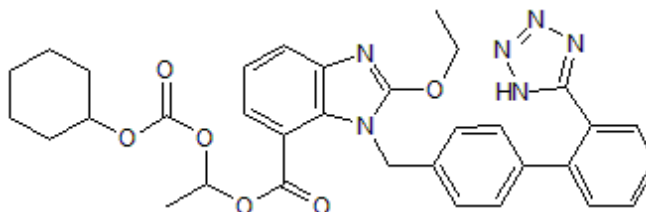
**Batch No.:** 1

CAS Number: 145040-37-5

IUPAC Name: 2-Ethoxy-1-[[2'-(2*H*-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1*H*-benzimidazole-7-carboxylic acid 1-[[[(cyclohexyloxy)carbonyl]oxy]ethyl ester

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>33</sub>H<sub>34</sub>N<sub>6</sub>O<sub>6</sub>  
**Batch Molecular Weight:** 610.66  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.91	5.61	13.76
Found	64.79	5.5	13.93

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

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**Description:**

Prodrug of the angiotensin II receptor 1 (AT<sub>1</sub>) antagonist candesartan (Cat. No. 4791), which exhibits antihypertensive effects in animal models.

**Physical and Chemical Properties:**

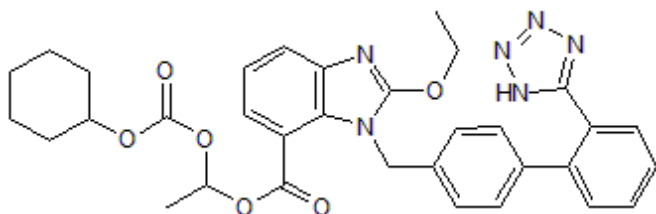
Batch Molecular Formula: C<sub>33</sub>H<sub>34</sub>N<sub>6</sub>O<sub>6</sub>

Batch Molecular Weight: 610.66

Physical Appearance: White solid

**Minimum Purity:** >99%

**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-(cyclohexyloxy)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.

**Nishikawa et al** (1997) Candesartan cilexetil: a review of its preclinical pharmacology. *J.Hum.Hypertens. Suppl* **2** 9. PMID: 9330999.

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO 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.

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