

**Product Name:** Azilsartan

**Catalog No.:** 4553

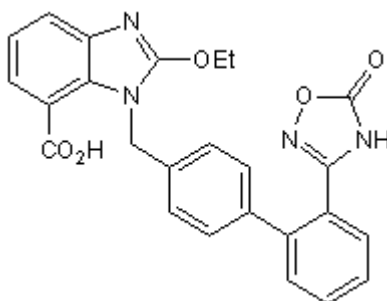
**Batch No.:** 1

**CAS Number:** 147403-03-0

**IUPAC Name:** 2-Ethoxy-1-[[2'-(4,5-dihydro-5-oxo-1,2,4-oxadiazol-3-yl)biphenyl-4-yl]methyl]benzimidazole-7-carboxylic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>25</sub>H<sub>20</sub>N<sub>4</sub>O<sub>5</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 460.95  
**Physical Appearance:** Off-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 98.3% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.14	4.48	12.15
Found	65.19	4.31	12.21

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

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**Description:**

Potent angiotensin II type 1 (AT<sub>1</sub>) receptor inverse agonist (IC<sub>50</sub> = 2.6 nM at the human AT<sub>1</sub> receptor). Inhibits angiotensin II-induced IP1 accumulation in COS-7 cells; decreases maximal contraction of rabbit aortic strips in a concentration-dependent manner (pD'<sub>2</sub> = 9.9). Antihypertensive; prevents vascular cell proliferation and expression of PAI-1.

**Physical and Chemical Properties:**

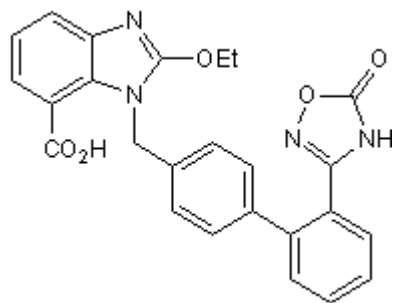
Batch Molecular Formula: C<sub>25</sub>H<sub>20</sub>N<sub>4</sub>O<sub>5</sub> · ¼H<sub>2</sub>O

Batch Molecular Weight: 460.95

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**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.

**References:**

**Kajiya et al** (2011) Molecular and cellular effects of azilsartan: a new generation angiotensin II receptor blocker. *J.Hypertens.* **29** 2476. PMID: 21986624.

**French et al** (2011) The angiotensin receptor blocker, azilsartan medoxomil (TAK-491), suppresses vascular wall expression of plasminogen activator inhibitor type-I protein potentially facilitating the stabilization of atherosclerotic plaques. *J.Cardiovasc.Pharmacol.* **58** 143. PMID: 21558880.

**Ojima et al** (2011) In vitro antagonistic properties of a new angiotensin type 1 receptor blocker, azilsartan, in receptor binding and function studies. *J.Pharmacol.Exp.Ther.* **336** 801. PMID: 21123673.

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