

Certificate of Analysis

Product Name: Azilsartan

Catalog No.: 4553

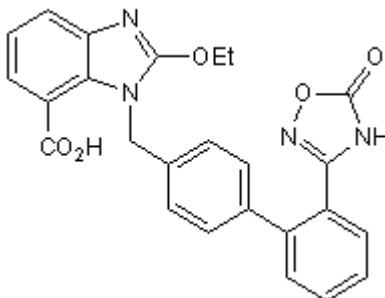
Batch No.: 1

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:	$C_{25}H_{20}N_4O_5 \cdot \frac{1}{4}H_2O$
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
¹H 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 (AT₁) receptor inverse agonist (IC₅₀ = 2.6 nM at the human AT₁ receptor). Inhibits angiotensin II-induced IP1 accumulation in COS-7 cells; decreases maximal contraction of rabbit aortic strips in a concentration-dependent manner (pD'₂ = 9.9). Antihypertensive; prevents vascular cell proliferation and expression of PAI-1.

Physical and Chemical Properties:

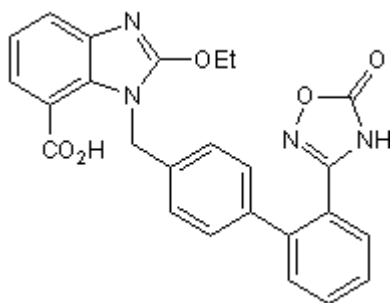
Batch Molecular Formula: C₂₅H₂₀N₄O₅ · ¼H₂O

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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