

**Product Name:** Olmesartan medoxomil

**Catalog No.:** 4620

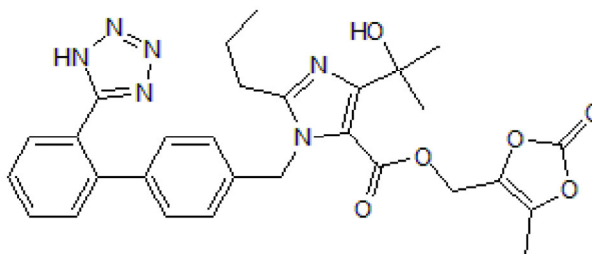
**Batch No.:** 1

CAS Number: 144689-63-4

IUPAC Name: 4-(1-Hydroxy-1-methylethyl)-2-propyl-1-[[2'-(2*H*-tetrazol-5-yl)[1,1'-biphenyl]-4-yl]methyl]-1*H*-imidazole-5-carboxylic acid-(5-methyl-2-oxo-1,3-dioxol-4-yl)methyl ester

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>29</sub> H <sub>30</sub> N <sub>6</sub> O <sub>6</sub>
<b>Batch Molecular Weight:</b>	558.59
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	DMSO to 100 mM ethanol to 10 mM
<b>Storage:</b>	Store at +4°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

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

	Carbon	Hydrogen	Nitrogen
Theoretical	62.36	5.41	15.05
Found	62.07	5.46	14.85

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

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**Description:**

Prodrug metabolised in vivo to Olmesartan (Cat. No. 4616), a selective non-peptide angiotensin II type I receptor (AT<sub>1</sub>) antagonist. Selectively inhibits angiotensin II binding to AT<sub>1</sub> receptors in bovine adrenal cortical membranes (IC<sub>50</sub> = 7.7 nM), with no effect on AT<sub>2</sub> receptors.

**Physical and Chemical Properties:**

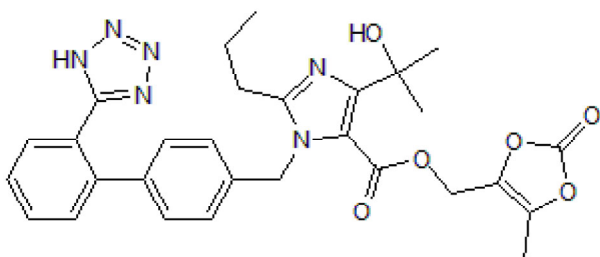
Batch Molecular Formula: C<sub>29</sub>H<sub>30</sub>N<sub>6</sub>O<sub>6</sub>

Batch Molecular Weight: 558.59

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 10 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Kim et al** (1997) Effects of angiotensin AT<sub>1</sub> receptor antagonist on volume overload-induced cardiac gene expression in rats. *Hypertens.Res.* **20** 133. PMID: 9220278.

**Mizuno et al** (1995) Pharmacology of CS-866, a novel nonpeptide angiotensin II receptor antagonist. *Eur.J.Pharmacol.* **285** 181. PMID: 8566137.

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