

Product Name: Olmesartan medoxomil

Catalog No.: 4620

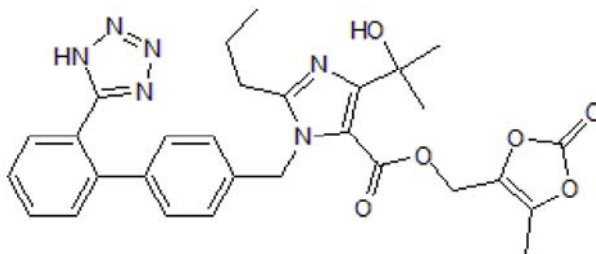
Batch No.: 1

CAS Number: 144689-63-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₃₀N₆O₆
Batch Molecular Weight: 558.59
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	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 (AT₁) antagonist. Selectively inhibits angiotensin II binding to AT₁ receptors in bovine adrenal cortical membranes (IC₅₀ = 7.7 nM), with no effect on AT₂ receptors.

Physical and Chemical Properties:

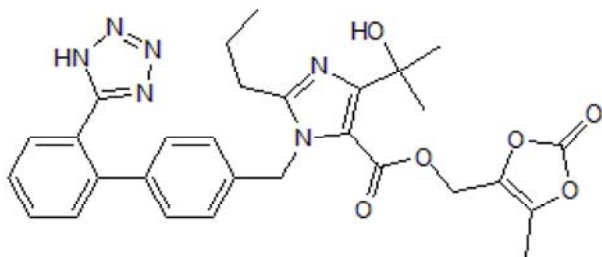
Batch Molecular Formula: C₂₉H₃₀N₆O₆

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. 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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Kim *et al* (1997) Effects of angiotensin AT₁ 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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