

Product Name: Olmesartan

Catalog No.: 4616

Batch No.: 2

CAS Number: 144689-24-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₆N₆O₃·½H₂O

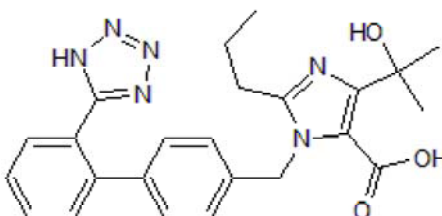
Batch Molecular Weight: 455.51

Physical Appearance: White solid

Solubility: DMSO to 20 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	63.28	5.97	18.45
Found	62.96	5.86	18.45

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Description:

Potent angiotensin II type I (AT₁) receptor antagonist (IC₅₀ = 6.7 nM at hAT₁ receptors). Improves cognitive function in a mouse model of hypertension- and hyperlipidemia-associated cognitive decline; ameliorates arterial stiffness in a rat model of chronic renal failure.

Physical and Chemical Properties:

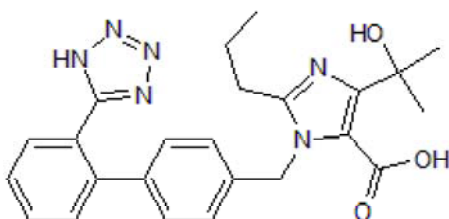
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Batch Molecular Weight: 455.51

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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.

References:

Chuang *et al* (2012) Effects of olmes. on arterial stiffness in rats with chronic renal failure. *Cardiovasc.Diabetol.* **11** 66. PMID: 22694778.

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.

Mogi *et al* (2007) Inhibition of cognitive decline in mice fed a high-salt and cholesterol diet by the angiotensin receptor blocker, olmes. *Neuropharmacology* **53** 899. PMID: 18028965.

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