TOCRIS b i o s c i e n c e

Certificate of Analysis

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Product Name: Telmisartan

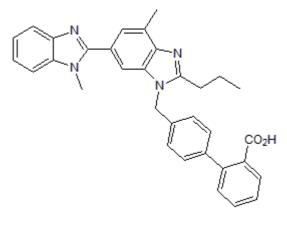
Catalog No.: 5139 Batch No.: 1

CAS Number: 144701-48-4 IUPAC Name: 4'-[(1,4'-Dime

e: 4'-[(1,4'-Dimethyl-2'-propyl[2,6'-bi-1*H*-benzimidazol]-1'-yl)methyl]-[1,1'-biphenyl]-2-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₃₃H₃₀N₄O₂ 514.62 White solid DMSO to 20 mM Store at RT



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 99.7% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 77.02 5.88 10.89 Found 76.8 5.92 10.98

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

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Print Date: Feb 6th 2014

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Description:

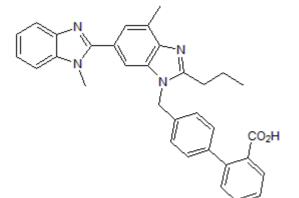
Antagonist of the angiotensin II type 1 receptor (AT_1) (K_i = 3.7 nM). Exhibits antihypertensive activity in a renindependent model of hypertension. Partial agonist of PPARy receptors; shown to improve insulin sensitivity in rodents receiving high fat diets.

Physical and Chemical Properties:

Batch Molecular Formula: C₃₃H₃₀N₄O₂ Batch Molecular Weight: 514.62 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

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 $45-60^{\circ}$ 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:

Ries et al (1993) 6-substituted benzimidazoles as new nonpeptide angiotensin II receptor antagonists: synthesis, biological activity, and structure-activity relationships. J.Med.Chem. **36** 4040. PMID: 8258826.

Benson *et al* (2004) Identification of telmisartan as a unique angiotensin II receptor antagonist with selective PPAR γ-modulating activity. Hypertension *43* 993. PMID: 15007034.

Rong *et al* (2009) An adipose tissue-independent insulin-sensitizing action of telmisartan: a study in lipodystrophic mice. J.Pharmacol.Exp.Ther. **331** 1096. PMID: 19770292.

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