

Product Name: Valsartan

Catalog No.: 4216

Batch No.: 1

CAS Number: 137862-53-4

IUPAC Name: (S)-3-methyl-2-[N-({4-[2-(2H-1,2,3,4-tetrazol-5-yl)phenyl]phenyl)methyl}pentanamido]butanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₉N₅O₃·³/₄H₂O

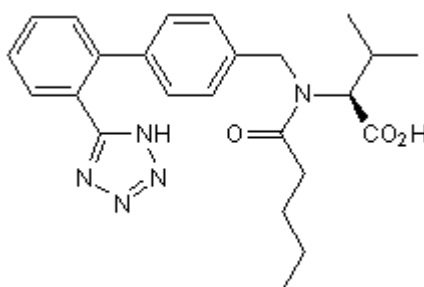
Batch Molecular Weight: 449.03

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -65.2 (Concentration = 1, Solvent = Methanol)

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 64.2 | 6.85 | 15.6 |
| Found | 64.2 | 6.74 | 15.73 |

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

Product Name: Valsartan

Catalog No.: 4216

Batch No.: 1

CAS Number: 137862-53-4

IUPAC Name: (S)-3-methyl-2-[N-({4-[2-(2H-1,2,3,4-tetrazol-5-yl)phenyl]phenyl)methyl}pentanamido]butanoic acid

Description:

High affinity AT₁ receptor antagonist (K_i = 2.38 nM). Displays 30,000-fold selectivity over AT₂ receptors. Inhibits angiotensin II-induced release of aldosterone in vitro. Orally active.

Physical and Chemical Properties:

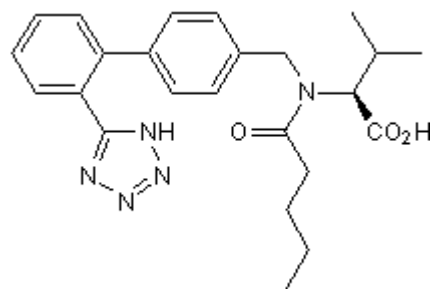
Batch Molecular Formula: C₂₄H₂₉N₅O₃·³/₄H₂O

Batch Molecular Weight: 449.03

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 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:

Criscione et al (1993) Pharmacological profile of valsartan: a potent, orally active, nonpeptide antagonist of the angiotensin II AT₁-receptor subtype. *Br.J.Pharmacol.* **110** 761. PMID: 8242249.

Wexler et al (1996) Nonpeptide angiotensin II receptor antagonists: the next generation in antihypertensive therapy. *J.Med.Chem.* **39** 625. PMID: 8576904.

Hanafy et al (2008) Effects of angiotensin II blockade on inflammation-induced alterations of pharmacokinetics and pharmacodynamics of calcium channel blockers. *Br.J.Pharmacol.* **153** 90. PMID: 17965735.

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