

Valsartan (Cas No 137862-53-4)



Valsartan

CAS number 137862-53-4

Formula Structure :

Systematic (IUPAC) name

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

Identifiers

CAS number 137862-53-4

ATC code C09CA03

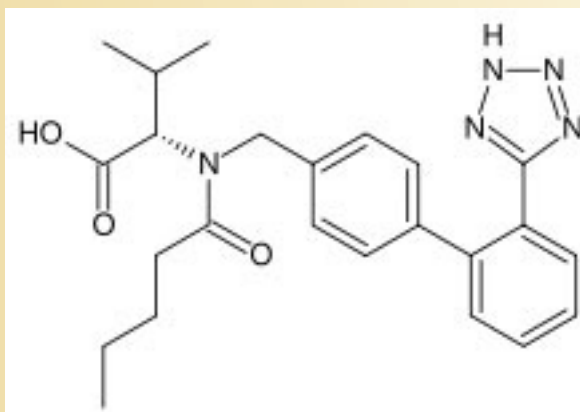
PubChem 60846

DrugBank APRD00133

Chemical data

Formula C₂₄H₂₉N₅O₃ Mol. mass 435.519 g/mol

SMILES eMolecules & PubChem



Pharmacokinetic data

Bioavailability 25%

Protein binding 95%

Metabolism Half life 6 hours

Excretion Renal 30%, biliary 70%

Valsartan is a nonpeptide, orally active, and specific angiotensin II antagonist acting on the AT1 receptor subtype.

Valsartan is chemically described as N-(1-oxopentyl)-N-[[2'-(1H-tetrazol-5-yl) [1,1'-biphenyl]-4-yl]methyl]-L-valine. Its empirical formula is C₂₄H₂₉N₅O₃, its molecular weight is 435.5.

Valsartan is a white to practically white fine powder. It is soluble in ethanol and methanol and slightly soluble in water. Valsartan is available as tablets for oral administration, containing 40 mg, 80 mg, 160 mg or 320 mg.