

Ramipril (Cas No 87333-19-5)



Ramipril

CAS number 87333-19-5

Systematic (IUPAC) name

(2S,3aS,6aS)-1-[(2S)-2-[[[(2S)-1-ethoxy-1-oxo-4-phenylbutan-2-yl]amino]propanoyl]-octahydrocyclopenta[b]pyrrole-2-carboxylic acid

Identifiers

CAS number 87333-19-5

ATC code C09AA05

PubChem 5362129

DrugBank APRD00009

ChemSpider 4514937

Chemical data

Formula C₂₃H₃₂N₂O₅ Mol. mass 416.511 g/mol

SMILES eMolecules & PubChem

Pharmacokinetic data

Bioavailability 28%

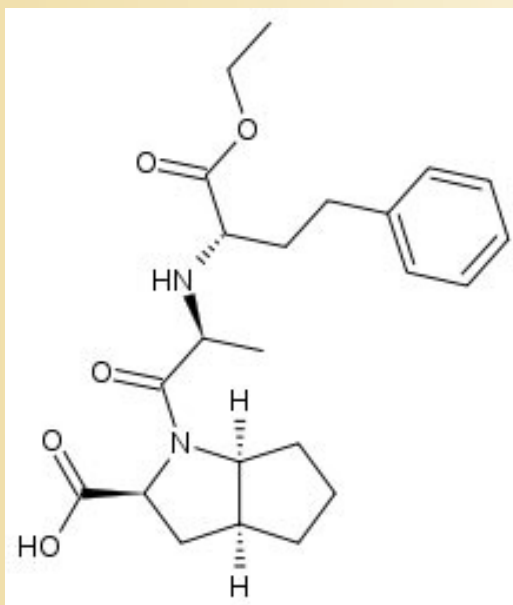
Protein binding 73% (ramipril)

56% (ramiprilat)

Metabolism Hepatic, to ramiprilat

Half life 2 to 4 hours

Excretion Renal (60%) and fecal (40%)



Ramipril is an angiotensin-converting enzyme (ACE) inhibitor, used to treat hypertension and congestive heart failure. ACE inhibitors lower the production of angiotensin II, therefore relaxing arterial muscles while at the same time enlarging the arteries, allowing the heart to pump blood more easily, and increasing blood flow due to more blood being pumped into and through larger passageways.