

Trandolapril (Cas No 87679-37-6)



Trandolapril

CAS number 87679-37-6

Formula Structure :

Systematic (IUPAC) name

(2S,3aR,7aS)-1-[(2S)-2-[[[(2S)-1-ethoxy-1-oxo-4-phenylbutan-2-Yl]amino]propanoyl]-octahydro-1H-indole-2-carboxylic acid

Identifiers

CAS number 87679-37-6

ATC code C09AA10

PubChem 5484727

DrugBank APRD01269

Chemical data

Formula C₂₄H₃₄N₂O₅ Mol. mass 430.537 g/mol

Pharmacokinetic data

Bioavailability Protein binding Trandolapril 80%

(independent of concentration)

Trandolaprilat 65 to 94%

(concentration-dependent)

Metabolism Hepatic

Half life 6 hours (trandolapril)

10 hours (trandolaprilat)

Excretion Fecal and renal

Trandolapril is the ethyl ester prodrug of a nonsulfhydryl angiotensin converting enzymeinhibitor, trandolaprilat. Trandolapril is chemically described as (2S, 3aR, 7aS)-1-[(S)-N-[(S)-1-Carboxy-3-phenylpropyl]alanyl] hexahydro-2-indo-linecarboxylic acid, 1-ethyl ester. Its empirical formula is C₂₄H₃₄N₂O₅and M.W.= 430.54

Melting Point = 125°C

Trandolapril is used alone or in combination with other medications to treat high blood pressure. It is also used to improve survival in patients with heart failure after a heart attack. Trandolapril is in a class of medications called angiotensin-converting enzyme (ACE) inhibitors. It works by decreasing certain chemicals that tighten the blood vessels, so blood flows more smoothly and the heart can pump blood more efficiently.

