

Product Name: Perindopril erbumine

Catalog No.: 4302

Batch No.: 1

CAS Number: 107133-36-8

IUPAC Name: (2S,3aS,7aS)-1-[(2S)-2-[(1S)-1-(Ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylic acid
tert-butylamine salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₃₂N₂O₅.C₄H₁₁N

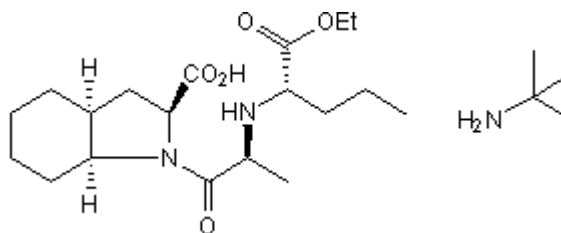
Batch Molecular Weight: 441.6

Physical Appearance: White solid

Solubility: ethanol to 50 mM
DMSO to 5 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -66.1 (Concentration = 1, Solvent = Ethanol)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.56	9.81	9.52
Found	62.17	9.79	9.56

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

Product Name: Perindopril erbumine

Catalog No.: 4302

Batch No.: 1

CAS Number: 107133-36-8

IUPAC Name: (2S,3aS,7aS)-1-[(2S)-2-[[[(1S)-1-(Ethoxycarbonyl)butyl]amino]-1-oxopropyl]octahydro-1H-indole-2-carboxylic acid
tert-butylamine salt

Description:

Angiotensin-converting enzyme (ACE) inhibitor (IC₅₀ = 1.05 nM). Brain penetrant. Suppresses the increase in hippocampal ACE activity and improves cognition in PS2APP-transgenic mice.

Physical and Chemical Properties:

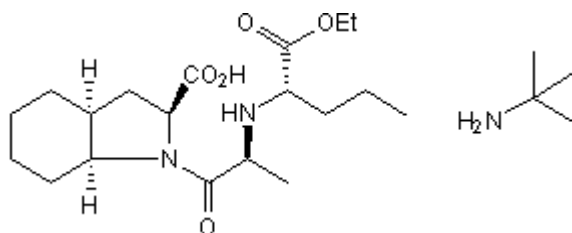
Batch Molecular Formula: C₁₉H₃₂N₂O₅.C₄H₁₁N

Batch Molecular Weight: 441.6

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

ethanol to 50 mM

DMSO to 5 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:

Takai et al (2004) Significant target organs for hypertension and cardiac hypertrophy by angiotensin-converting enzyme inhibitors. *Hypertens.Res.* **27** 213. PMID: 15080380.

Ceconi et al (2007) Angiotensin-converting enzyme (ACE) inhibitors have different selectivity for bradykinin binding sites of human somatic ACE. *Eur.J.Pharmacol.* **577** 1. PMID: 17716647.

Dong et al (2011) Perindopril, a centrally active angiotensin-converting enzyme inhibitor, prevents cognitive impairment in mouse models of Alzheimer's disease. *FASEB J.* **25** 2911. PMID: 21593435.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956