
Product Data Sheet

Product Name: Perindopril

Cat. No.: GC16871

Chemical Properties

Cas. No. 82834-16-0

Chemical Name (2S,3aS,7aS)-1-[(2S)-2-[[[(2S)-1-ethoxy-1-oxopentan-2-yl]amino]propanoyl]-2,3,3a,4,5,6,7,7a-octahydroindole-2-carboxylic acid

SMILES CCCC(C(=O)OCC)NC(C)C(=O)N1C2CCCCC2CC1C(=O)OFormula $C_{19}H_{32}N_2O_5$ M.Wt 368.47

Solubility Ethanol: 25 mg/ml, PBS (pH 7.2): 10 mg/ml Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure **Background**

Perindopril is an inhibitor of angiotensin-I converting enzyme (ACE) [1].

As an inhibitor of ACE, perindopril has been reported to have anticancer activity through the inhibition of tumor growth and angiogenesis in hepatocellular carcinoma cells. In the in vitro cell proliferation assays, perindopril does not show significant effect on the cell proliferation. However, even 1 μ M perindoprilat can significantly reduce mRNA expression of VEGF and can inhibit the induction activity of the VEGF promoter in KB cells. Also in KB cells, 1 μ M perindoprilat treatment significantly suppresses the angiotensin II production. Besides that, In vivo assays demonstrate perindopril can suppress the growth of SCC-VII cells [1]. Moreover, it is reported that 8 mg perindopril given orally can lower blood pressure without a change in heart rate [1, 2].

References:

[1] Ryuji Yasumatsu, Torahiko Nakashima, Muneyuki Masuda, Aya Ito, Yuichiro Kuratomi, Yuichiro Kuratomi and Shizuo Komune. Effects of the angiotensin-I converting enzyme

Caution: Product has not been fully validated for medical applications. For research use only.

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inhibitor perindopril on tumor growth and angiogenesis in head and neck squamous cell carcinoma cells. J Cancer Res Clin Oncol. 2004, 130: 567-573.

[2] A.A.Ajayi, K.R.Lees and J.L.Reid. Effects of angiotensin converting enzyme inhibitor, perindopril, on autonomic reflexes. Eur J Clin Pharmacol. 1986, 30:177-182.

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