

Product Data Sheet

Product Name: Angiotensin 1/2 (1-9)
 Cat. No.: GP10025

Chemical Properties

Cas. No. 34273-12-6

Chemical Name Angiotensin 1/2 (1-9)

SMILES CCC(C)C(C(=O)NC(CC1=CN=CN1)C(=O)N2CCCC2C(=O)NC(CC3=CC=CC=C3)C(=O)NC(CC4=CN=CN4)C(=O)O)NC(=O)C(CC5=CC=C

Formula C₅₆H₇₈N₁₆O₁₃

M.Wt

Solubility ≥ 118.3mg/mL in DMSO

Storage

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

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

Structure

Background

Angiotensin I/II (1-9) is a peptide (ASP-ARG-VAL-TYR-ILE-HIS-PRO-PHE-HIS) containing the amino acids 1-9 that are converted from Angiotensin I/II peptide.

Angiotensin I is formed by the action of renin on angiotensinogen, which has 12 amino acids and is an α -2-globulin produced constitutively and released into the circulation mainly by the liver. Renin cleaves the peptide bond between the leucine (Leu) and valine (Val) residues on angiotensinogen, creating the ten-amino acid peptide angiotensin I. Angiotensin I is converted to angiotensin II (All) through removal of two C-terminal residues by the enzyme angiotensin-converting enzyme (ACE), primarily through ACE within the lung.

Angiotensin is a peptide hormone that causes vasoconstriction and a subsequent increase in blood pressure. Angiotensin also stimulates the release of aldosterone, which promotes sodium retention in the distal nephron so that drives blood pressure up.

References:

1. Basso N, Terragno NA (December 2001). "History about the discovery of the renin-angiotensin system". Hypertension 38 (6): 1246-9.
2. Richard A. Preston. et. (1998). pAge-Race Subgroup Compared With Renin Profile as Predictors of Blood Pressure Response to Antihypertensive Therapy. JAMA. 1998;280(13):1168-1172.
3. Williams GH, Dluhy RG (2008). "Chapter 336: Disorders of the Adrenal Cortex". In Loscalzo J, Fauci AS, Braunwald E, Kasper DL, Hauser SL, Longo DL. Harrison's principles of internal medicine. McGraw-Hill Medical.

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

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