
Product Data Sheet

Product Name: Acetyl Angiotensinogen (1-14), porcine
Cat. No.: GP10059

Chemical Properties

Cas. No. 66641-26-7

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)NC(CC(C)C)C(=O)NC(C

Formula C₈₇H₁₂₅N₂₁O₂₁

Solubility ≥ 180.1mg/mL in DMSO

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

Acetyl Angiotensinogen (1-14), porcine, (C₈₇H₁₂₅N₂₁O₂₁) is a peptide with the sequence AC-ASP-ARG-VAL-TYR-ILE-HIS-PRO-PHE-HIS-LEU-LEU-VAL-TYR-SER-OH, MW= 1801.05. The protein encoded by the Angiotensinogen gene is known as pre-angiotensinogen or angiotensinogen precursor. Pre-angiotensinogen is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure¹. The resulting product, angiotensin I, is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. Angiotensin II is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and preeclampsia². Mutations in the gene are associated with susceptibility to essential hypertension and can cause renal tubular dysgenesis, a severe disorder of renal tubular development. Defects in the gene have also been associated with non-familial structural atrial fibrillation and inflammatory bowel disease.

References:

1. Basso N, Terragno NA (December 2001). "History about the discovery of the renin-angiotensin system". Hypertension 38 (6): 1246-9.
2. Skurk T, Lee YM, Hauner H (May 2001). "Angiotensin II and its metabolites stimulate PAI-1 protein release from human adipocytes in primary culture". Hypertension 37 (5): 1336-40.

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

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