
Product Data Sheet

Product Name: Angiotensinogen (1-14), human

Cat. No.: GC32604

Chemical Properties

Cas. No. 104180-23-6

SMILES Asp-Arg-Val-Tyr-Ile-His-Pro-Phe-His-Leu-Val-Ile-His-Asn

Formula $C_{83}H_{122}N_{24}O_{19}$ M.Wt 1760.04

Solubility Soluble in Water 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

Angiotensinogen (1-14), also known as tetradecapeptide (TDP), is a synthetic peptide precursor of angiotensin I that corresponds to amino acids 1-14 of endogenous human angiotensinogen.¹ Angiotensinogen (1-14) is cleaved by renin at the Leu-Val peptide bond to release angiotensin I, which is then converted to angiotensin II by angiotensin converting enzyme (ACE) and exerts vasoconstrictive properties.² Angiotensinogen (1-14) (0.001-1 μM) induces contraction of isolated rat femoral resistance vessels, an effect that is reduced by the angiotensin II receptor partial antagonist saralasin and enhanced by the serine protease kallikrein.³

1. Kageyama, R., Ohkubo, H., and Nakanishi, S. Primary structure of human preangiotensinogen deduced from the cloned cDNA sequence *Biochemistry* 23(16)3603-3609(1984) 2. Tewksbury, D.A., Dart, R.A., and Travis, J. The amino terminal amino acid sequence of human angiotensinogen *Biochem. Biophys. Res. Commun.* 99(4)1311-1315(1981) 3. Kvist, S., Mulvany, M.J., and Aalkjaer, C. Studies of the renin-angiotensin system in the wall of rat femoral resistance vessels *Eur. J. Pharmacol.* 198(1)77-83(1991)

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

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