

Angiotensin

Description:Angiotensin contains a total of 8 amino acids having a molecular weight of 1031.2 Dalton and a molecular formula of C₄₉H₇₀N₁₄O₁₁.

Catalog #:ENPS-290

Synonyms:Angiotensinogen, Serpin A8, ANHU, SERPINA8.

For research use only.

Source:Synthetic.

Physical Appearance:Sterile Filtered white lyophilized powder.

Amino Acid Sequence:Asn-Arg-Val-Tyr-Val-His-Pro-Phe-OH.

Purity:Greater than 98.0% as determined by RP-HPLC.

Stability:

Lyophilized Angiotensin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Serpin A8 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized Angiotensin in sterile 18M-cm H₂O not less than 100 µg/ml or more than 10 mg/ml solutions.

Introduction:

Angiotensin is an oligopeptide in the blood that causes vasoconstriction, increased blood pressure, and release of aldosterone from the adrenal cortex. It is a powerful dipsogen. It is derived from the precursor molecule angiotensinogen, a serum globulin produced in the liver. It plays an important role in the renin-angiotensin system. The protein encoded by this gene, pre-angiotensinogen or angiotensinogen precursor, is expressed in the liver and is cleaved by the enzyme renin in response to lowered blood pressure. The resulting product, angiotensin I is then cleaved by angiotensin converting enzyme (ACE) to generate the physiologically active enzyme angiotensin II. The protein is involved in maintaining blood pressure and in the pathogenesis of essential hypertension and preeclampsia.

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