



Product Data Sheet

Cat # RP-1465

Angiotensin

Size: 1 mg

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.

**Usage:** This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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**Source:** Synthetic. Angiotensin cotanins a total of 8 amino acid having a molecular weight of 1031.2 dalton and a molecular formula of  $C_{49}H_{70}N_{14}O_{11}$ .

**Applications and Suggested Dilutions:** It is recommended to reconstitute the lyophilized Angiotensin in sterile 18MΩ-cm H<sub>2</sub>O not less than 100 µg/ml or more than 10 mg/ml solutions. Greater than 98.0% as determined by RP-HPLC. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.