



LKT Laboratories, Inc.
Angiotensin II (1-4), human

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Product Information

Product ID A5279
CAS No.
Chemical Name

H-Asp-Arg-Val-Tyr-OH

Synonym

Formula $C_{24}H_{37}N_7O_8$
Formula Wt. 551.6
Melting Point
Purity $\geq 95\%$
Solubility Soluble in water.

Bulk quantities available upon request

Product ID	Size
A5279	5 mg
A5279	10 mg
A5279	25 mg

Store Temp $-20^{\circ}C$
Ship Temp Ambient

Description Angiotensin II (AT II) is an endogenous peptide produced from AT I by angiotensin-converting-enzyme (ACE). AT II binds the AT II type 1 (AT1) receptor, stimulating GPCRs in vascular smooth muscle cells and increasing intracellular Ca^{2+} levels; this results in contraction and vasoconstriction, increasing blood pressure. AT II also acts at the Na^{+}/H^{+} exchanger in the proximal tubules of the kidney. Here, AT II increases reabsorption of Na^{+} and HCO_3^{-} and excretion of H^{+} , increasing blood volume and pH and further increasing blood pressure.

References De Giusti VC, Ciancio MC, Orlowski A, et al. Modulation of the cardiac sodium/bicarbonate cotransporter by the renin angiotensin aldosterone system: pathophysiological consequences. *Front Physiol.* 2014 Jan 17;4:411. PMID: 24478712.

Moon JY. Recent Update of Renin-angiotensin-aldosterone System in the Pathogenesis of Hypertension. *Electrolyte Blood Press.* 2013 Dec;11(2):41-45. PMID: 24627703.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.