



# LKT Laboratories, Inc.

## [Val5]-Angiotensin II, human

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### Product Information

Product ID A5284

CAS No.

Chemical Name

Synonym

Formula  $C_{49}H_{69}N_{13}O_{12}$

Formula Wt. 1032.18

Melting Point

Purity  $\geq 95\%$

Solubility Soluble in water.

H-Asp-Arg-Val-Tyr-Val-His-Pro-Phe-OH

### Pricing and Availability

*Bulk quantities available upon request*

| Product ID | Size  | List Price |
|------------|-------|------------|
| A5284      | 5 mg  | \$63.00    |
| A5284      | 10 mg | \$107.00   |
| A5284      | 25 mg | \$189.00   |

Store Temp  $-20^{\circ}\text{C}$

Ship Temp Ambient

**Description** Angiotensin II (AT II) is a 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  $\text{Ca}^{2+}$  levels; this results in contraction and vasoconstriction, increasing blood pressure. AT II also acts at the  $\text{Na}^{+}/\text{H}^{+}$  exchanger in the proximal tubules of the kidney. Here, AT II increases reabsorption of  $\text{Na}^{+}$  and  $\text{HCO}_3^{-}$  and excretion of  $\text{H}^{+}$ , increasing blood volume and pH and further increasing blood pressure. TEST!!!!!!

**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.