



LKT Laboratories, Inc.

[Sar1]-Angiotensin II

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Product Information

Product ID A5283

CAS No.

Chemical Name

Synonym

Formula $C_{49}H_{71}N_{13}O_{11}$

Formula Wt. 1018.19

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

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

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 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.

H-Sar-Arg-Val-Tyr-Ile-His-Pro-Phe-OH

Bulk quantities available upon request

Product ID	Size
A5283	5 mg
A5283	10 mg
A5283	25 mg

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.