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DATASHEET

Angiotensin II (human)

Product overview

Name Angiotensin II (human)

Cat No HB3488

Biological description Angiotensin II is a peptide endocrine hormone which is involved in a variety of biological processes.

Angiotensin II is the primary effector of the RAS (renin-angiotensin system) which is a central component of the physiological/ pathophysiological responses of the cardiovascular system.

Stimulation with angiotensin II modulates blood pressure and regulates vasoconstriction and salt/water homeostasis.

Angiotensin II is also associated with induction of smooth muscle cell growth.

Angiotensin II is also involved in the inflammatory process. It is considered a growth factor that regulates cell growth and fibrosis. It increases adhesion molecules, cytokines and chemokines and exerts a proinflammatory effect on various cell types (e.g. leucocytes, endothelial cells and vascular smooth muscle cells).

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Angiotensin II is also a substrate for ACE2.

Alternative names Angll, Ang-II, Ang II

Biological action Activator Purity >95%

Description Endogenous peptide hormone. Potent vasoconstrictor.

Solubility & Handling

Storage instructions -20 °C (desiccate)
Solubility overview Soluble in water (1 mg/ml)

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use

Chemical Data

Chemical name DRVYIHPF Molecular Weight 1046.2

Sequence (three letter) Asp-Arg-Val-Tyr-lle-His-Pro-Phe

CAS Number 4474-91-3 PubChem identifier 172198

CCCN=C(N)N)NC(=O)[C@H](CC(=O)O)N

References

Angiotensin II revisited: new roles in inflammation, immunology and aging.

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PubMedID 20597104

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