

Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@m2stage.hellobio.com



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). Angiotensin II is also a substrate for ACE2.
Alternative names	AngII, 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)
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
Chemical structure	
Molecular Formula	C ₅₀ H ₇₁ N ₁₃ O ₁₂
Sequence (one letter)	DRVYIHPF
Sequence (three letter)	Asp-Arg-Val-Tyr-Ile-His-Pro-Phe
CAS Number	4474-91-3
PubChem identifier	172198
SMILES	<chem>CC[C@H](C)[C@@H](C(=O)N[C@@H](CC1=CN=CN1)C(=O)N2CCC[C@H]2C(=O)N[C@@H](CC3=CC=CC=C3)C(=O)O)NC(=O)[C@H](CC4=CC=C(C=C4)O)NC(=O)[C@H](C(C)C)NC(=O)[C@H](CCCN=C(N)N)NC(=O)[C@H](CC(=O)O)N</chem>
InChiKey	CZGUSIXMZVURDU-JZXHSEFVSA-N

Chemical name	DRVYIHPF
Protein length	8

References

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

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PubMedID [20597104](#)

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