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## DATASHEET

### Angiotensin II (human)

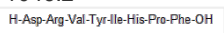
#### Product overview

|                               |  |
|-------------------------------|--|
| <b>Name</b>                   | Angiotensin II (human)   |
| <b>Cat No</b>                 | HB3488   |
| <b>Biological description</b> | <p>Angiotensin II is a peptide endocrine hormone which is involved in a variety of biological processes.</p> <p>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.</p> <p>Stimulation with angiotensin II modulates blood pressure and regulates vasoconstriction and salt/water homeostasis.</p> <p>Angiotensin II is also associated with induction of smooth muscle cell growth.</p> <p>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).</p> |
| <b>Alternative names</b>      | Angiotensin II is also a substrate for ACE2.<br>AngII, Ang-II, Ang II  |
| <b>Biological action</b>      | Activator  |
| <b>Purity</b>                 | >95%   |
| <b>Description</b>            | Endogenous peptide hormone. Potent vasoconstrictor.  |

#### Solubility & Handling

|                             |  |
|-----------------------------|--|
| <b>Storage instructions</b> | -20 °C (desiccate)   |
| <b>Solubility overview</b>  | Soluble in water (1 mg/ml)   |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use |

#### Chemical Data

|                                |  |
|--------------------------------|--|
| <b>Chemical name</b>           | DRVYIHPF   |
| <b>Molecular Weight</b>        | 1046.2   |
| <b>Chemical structure</b>      |   |
| <b>Molecular Formula</b>       | C <sub>50</sub> H <sub>71</sub> N <sub>13</sub> O <sub>12</sub>  |
| <b>Sequence (one letter)</b>   | DRVYIHPF   |
| <b>Sequence (three letter)</b> | Asp-Arg-Val-Tyr-Ile-His-Pro-Phe  |
| <b>CAS Number</b>              | 4474-91-3  |
| <b>PubChem identifier</b>      | 172198   |
| <b>SMILES</b>                  | 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](CCCNC(=O)N)NC(=O)[C@H](CC(=O)O)N |
| <b>InChiKey</b>                | CZGUSIXMZVURDU-JZXHSEFVSA-N  |
| <b>Protein length</b>          | 8  |

## References

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

Benigni et al (2010) EMBO Mol Med. 7

**PubMedID** [20597104](#)

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

Benigni et al (2010) EMBO Mol Med. 7

**PubMedID** [20597104](#)

### **Angiotensin II cell signaling: physiological and pathological effects in the cardiovascular system.**

Mehta et al (2007) Am J Physiol Cell Physiol 292(1)

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### **Inflammation and angiotensin II.**

Suzuki et al (2003) Int J Biochem Cell Biol 35(6)

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### **Angiotensin II and inflammation: the effect of angiotensin-converting enzyme inhibition and angiotensin II receptor blockade.**

Dandona et al (2007) J Hum Hypertens. 21(1)

**PubMedID** [17096009](#)

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