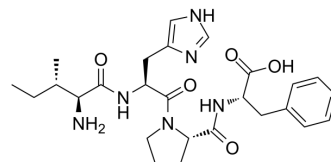


Angiotensin II (5-8), human

Cat. No.:	HY-P1769
CAS No.:	34233-50-6
Molecular Formula:	C ₂₆ H ₃₆ N ₆ O ₅
Molecular Weight:	512.6
Sequence:	Ile-His-Pro-Phe
Sequence Shortening:	IHPF
Target:	Angiotensin Receptor
Pathway:	GPCR/G Protein
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)



BIOLOGICAL ACTIVITY

Description

Angiotensin II (5-8), human is an endogenous C-terminal fragment of the peptide vasoconstrictor angiotensin II^[1]. Angiotensin II binds the AT II type 1 (AT1) receptor, stimulating GPCRs in vascular smooth muscle cells and increasing intracellular Ca²⁺ levels. Angiotensin II also acts at the Na⁺/H⁺ exchanger in the proximal tubules of the kidney^{[2][3]}.

REFERENCES

- [1]. Guethe LM, et al. Angiotensin (5-8) modulates nociception at the rat periaqueductal gray via the NO-sGC pathway and an endogenous opioid. *Neuroscience*. 2013 Feb 12;231:315-27.
- [2]. De Giusti VC, et al. Modulation of the cardiac sodium/bicarbonate cotransporter by the renin angiotensin aldosterone system: pathophysiological consequences. *Front Physiol*. 2014 Jan 17;4:411.
- [3]. Moon JY, et al. Recent Update of Renin-angiotensin-aldosterone System in the Pathogenesis of Hypertension. *Electrolyte Blood Press*. 2013 Dec;11(2):41-5.

Caution: Product has not been fully validated for medical applications. For research use only.

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