

Angiotensinogen (1-14), human

Cat. No.:	HY-P1486
CAS No.:	104180-23-6
Molecular Formula:	C ₈₃ H ₁₂₂ N ₂₄ O ₁₉
Molecular Weight:	1760.04
Sequence:	Asp-Arg-Val-Tyr-Ile-His-Pro-Phe-His-Leu-Val-Ile-His-Asn
Sequence Shortening:	DRVYIHPFHLVIHN
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Angiotensinogen (1-14), human is a fragment of the renin substrate angiotensinogen. Angiotensinogen is naturally occurring substrate for renin and a precursor for all angiotensin peptides ^{[1][2]} .
IC ₅₀ & Target	Human Endogenous Metabolite
In Vitro	<p>Angiotensinogen (AGT) is the only precursor of all angiotensin peptides. Human AGT has 485 amino acids, including a 33 amino-acid signal peptide. The 10 N-terminal amino acids are cleaved by renin to provide angiotensin I (AngI), which is the source for an array of active angiotensin peptides^[1].</p> <p>Angiotensinogen isolated from most species is cleaved by human renin. Synthetic peptides containing the N-terminal amino-acid sequence of angiotensinogen were renin substrates^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. Lu H, et al. Structure and functions of angiotensinogen. *Hypertens Res.* 2016 Jul;39(7):492-500.

[2]. Burton J, et al. The amino-acid residues on the C-terminal side of the cleavage site of angiotensinogen influence the species specificity of reaction with renin. *iochim Biophys Acta.* 1988 Jan 4;952(1):8-12.

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

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