

Angiotensinogen (1-14), human

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| Cat. No.: | HY-P1486 |
| CAS No.: | 104180-23-6 |
| Molecular Formula: | C ₈₃ H ₁₂₂ N ₂₄ O ₁₉ |
| Molecular Weight: | 1760.01 |
| 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: | Sealed storage, away from moisture |
| | Powder -80°C 2 years |
| | -20°C 1 year |

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

BIOLOGICAL ACTIVITY

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| 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 | 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] . 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] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

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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