

Human α -Defensin 6

Cat. No.:	HY-P5681
Molecular Formula:	C ₁₅₆ H ₂₂₈ N ₄₆ O ₄₆ S ₇
Molecular Weight:	3708.22
Sequence:	Ala-Phe-Thr-Cys-His-Cys-Arg-Arg-Ser-Cys-Tyr-Ser-Thr-Glu-Tyr-Ser-Tyr-Gly-Thr-Cys-Thr-Val-Met-Gly-Ile-Asn-His-Arg-Phe-Cys-Cys-Leu (Disulfide bridge: Cys4-Cys31, Cys6-Cys20, Cys10-Cys30)
Sequence Shortening:	AFTCHCRRSCYSTEYSYGTCTVMGINHRFCCL (Disulfide bridge: Cys4-Cys31, Cys6-Cys20, Cys10-Cys30)
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Human α -Defensin 6, a 32-residue cysteine-rich peptide, can inhibit bacterial invasion and contribute to the mucosal immunity. Human α -Defensin 6 forms ordered self-assembly fibrils and nanonets that surround and entangle bacteria after stochastic binding to bacterial surface proteins. Human α -Defensin 6 also inhibits *C. albicans* biofilm formation^{[1][2]}.

REFERENCES

- [1]. Chu H, et al. Human α -defensin 6 promotes mucosal innate immunity through self-assembled peptide nanonets. *Science*. 2012 Jul 27;337(6093):477-81.
- [2]. Chairatana P, et al. Human α -Defensin 6: A Small Peptide That Self-Assembles and Protects the Host by Entangling Microbes. *Acc Chem Res*. 2017 Apr 18;50(4):960-967.

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

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