

Defensin HNP-3 human

Cat. No.:	HY-P2302
CAS No.:	136661-76-2
Molecular Formula:	C ₁₅₁ H ₂₂₂ N ₄₄ O ₄₀ S ₆
Molecular Weight:	3486.04
Sequence:	Asp-Cys-Tyr-Cys-Arg-Ile-Pro-Ala-Cys-Ile-Ala-Gly-Glu-Arg-Arg-Tyr-Gly-Thr-Cys-Ile-Tyr-Gln-Gly-Arg-Leu-Trp-Ala-Phe-Cys-Cys (Disulfide bridge:Cys2-Cys30,Cys4-Cys19,Cys9-Cys29)
Sequence Shortening:	DCYCRIPACIAGERRYGTCTIYQGRLWAFCC (Disulfide bridge:Cys2-Cys30,Cys4-Cys19,Cys9-Cys29)
Target:	Bacterial; Fungal; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Defensin HNP-3 human is a cytotoxic antibiotic peptide known as "defensin". Defensin HNP-3 human has inhibitory activity against *Staphylococcus aureus*, *Pseudomonas aeruginosa* and *Escherichia coli*. Defensin HNP-3 human is initially synthesized as the 94 amino acids preproHNP(1-94), which is hydrolyzed to proHNP(20-94) and converted to mature HNP(65-94) after the removal of anion precursors^{[1][2]}.

REFERENCES

[1]. Valore EV, et al. Intramolecular inhibition of human defensin HNP-1 by its propeptide. *J Clin Invest*. 1996 Apr 1;97(7):1624-9.

[2]. Ganz T, et al. Defensins. Natural peptide antibiotics of human neutrophils[J]. *The Journal of clinical investigation*, 1985, 76(4): 1427-1435.

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

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