

Hepcidin-20 (human)

Cat. No.:	HY-P4370
CAS No.:	342790-23-2
Molecular Formula:	C ₈₅ H ₁₃₅ N ₂₇ O ₂₃ S ₉
Molecular Weight:	2191.73
Sequence:	Ile-Cys-Ile-Phe-Cys-Cys-Gly-Cys-Cys-His-Arg-Ser-Lys-Cys-Gly-Met-Cys-Cys-Lys-Thr (Disulfide bridge: Cys2-Cys8,Cys5-Cys18,Cys6-Cys17,Cys9-Cys14)
Sequence Shortening:	ICIFCCGCCHRSKCGMCKKT (Disulfide bridge: Cys2-Cys8,Cys5-Cys18,Cys6-Cys17,Cys9-Cys14)
Target:	Bacterial; Fungal
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Hepcidin-20 (human) is a histidine-containing, cysteine-rich, β -sheet structured peptide. Hepcidin-20 (human) shows antifungal activity. Hepcidin-20 (human) inhibits biofilm formation and bacterial cell metabolism of polysaccharide intercellular adhesin (PIA)-positive and PIA-negative strains^{[1][2][3]}.

REFERENCES

- [1]. Maisetta G, et al. pH-dependent disruption of Escherichia coli ATCC 25922 and model membranes by the human antimicrobial peptides hepcidin 20 and 25. FEBS J. 2013 Jun;280(12):2842-54.
- [2]. Del Gaudio G, et al. Antifungal Activity of the Noncytotoxic Human Peptide Hepcidin 20 against Fluconazole-Resistant Candida glabrata in Human Vaginal Fluid. Antimicrob Agents Chemother. 2013 Sep;57(9):4314-4321.
- [3]. Brancatisano FL, et al. Inhibitory effect of the human liver-derived antimicrobial peptide hepcidin 20 on biofilms of polysaccharide intercellular adhesin (PIA)-positive and PIA-negative strains of Staphylococcus epidermidis. Biofouling. 2014;30(4):435-46.

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

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