



LKT Laboratories, Inc.

Histatin 5

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Product Information

Product ID H3273

CAS No. 115966-68-2

Chemical Name

Synonym

Formula $C_{133}H_{195}N_{51}O_{33}$

Formula Wt. 3036.36

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water.

Store Temp -20°C

Ship Temp Ambient

Description Histatin 5 is an endogenous antimicrobial peptide (AMP) present in the salivary gland. Histatin 5 exhibits anti-inflammatory, antibacterial, and antifungal activities. In myeloid dendritic cells, histatin 5 binds *Poryphyromonas* hemagglutinin B, inhibiting production of MIP-1 α , MIP-1 β , and TNF- α . Histatin binds bacterial DNA, displaying bactericidal activity against gram positive bacteria such as *Streptococcus*. Additionally, histatin 5 causes ion flux-induced cell death of *Candida* cells in an ex vivo model of oral candidiasis.

H-Asp-Ser-His-Ala-Lys-Arg-His-His-Gly-Tyr-Lys-Arg-Lys-Phe-His-Glu-Lys-His-His-Ser-His-Arg-Gly-Tyr-OH

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
H3273	0.5 mg	\$239.40
H3273	1 mg	\$406.40
H3273	2.5 mg	\$718.30

References Borgwardt DS, Martin AD, Van Hemert JR, et al. Histatin 5 binds to *Poryphyromonas* gingivalis hemagglutinin B (HagB) and alters HagB-induced chemokine responses. *Sci Rep*. 2014 Jan 29;4:3904. PMID: 24473528.

Huo L, Zhang K, Ling J, et al. Antimicrobial and DNA-binding activities of the peptide fragments of human lactoferrin and histatin 5 against *Streptococcus mutans*. *Arch Oral Biol*. 2011 Sep;56(9):869-76. PMID: 21382611.

Peters BM, Zhu J, Fidel PL Jr, et al. Protection of the oral mucosa by salivary histatin-5 against *Candida albicans* in an ex vivo murine model of oral infection. *FEMS Yeast Res*. 2010 Aug 1;10(5):597-604. PMID: 20491938.

Jang WS, Bajwa JS, Sun JN, et al. Salivary histatin 5 internalization by translocation, but not endocytosis, is required for fungicidal activity in *Candida albicans*. *Mol Microbiol*. 2010 Jul;77(2):354-70. PMID: 20487276.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.