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## DATASHEET

Histatin 5

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### Product overview

<b>Name</b>	Histatin 5
<b>Cat No</b>	HB7356
<b>Biological description</b>	Salivary peptide with broad spectrum antimicrobial action including against gram positive and gram negative bacteria. Induces the formation of ROS (reactive oxygen species) to disrupt mitochondrial respiration. Shows antifungal activity.
<b>Alternative names</b>	Hst-5
<b>Biological action</b>	Peptide
<b>Purity</b>	>95%
<b>Description</b>	Antimicrobial salivary peptide

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### Solubility & Handling

<b>Storage instructions</b>	-20 °C
<b>Solubility overview</b>	Soluble in acidic buffer
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

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### Chemical Data

<b>Molecular Weight</b>	3036.3
<b>Molecular Formula</b>	C <sub>133</sub> H <sub>195</sub> N <sub>51</sub> O <sub>33</sub>
<b>Sequence (one letter)</b>	DSHAKRHHGYKRKFHEKHSHRGY
<b>Sequence (three letter)</b>	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

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### References

#### Histatin 5 Metallopeptides and Their Potential against *Candida albicans* Pathogenicity and Drug Resistance

Zolin GVS *et al* (2021) *Biomolecules* 11(8)

**PubMedID** [34439875](#)

#### The human salivary peptide histatin 5 exerts its antifungal activity through the formation of reactive oxygen species

Helmerhorst EJ *et al* (2001) *Proc Natl Acad Sci U S A* 98(25)

**PubMedID** [11717389](#)

#### Effects of histatin 5 and derived peptides on *Candida albicans*

Ruissen AL *et al* (2001) *Biochem J* 356(Pt 2)

**PubMedID** [11368762](#)

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