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DATASHEET

Histatin 5

Product overview

Name	Histatin 5
Cat No	HB7356
Biological description	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.
Alternative names	Hst-5
Biological action	Peptide
Purity	>95%
Description	Antimicrobial salivary peptide

Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in acidic buffer
Storage of solutions	Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.
Shipping Conditions	Stable for ambient temperature shipping. Follow storage instructions on receipt.
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Molecular Weight	3036.3
Molecular Formula	C ₁₃₃ H ₁₉₅ N ₅₁ O ₃₃
Sequence (one letter)	DSHAKRHHGYKRKFHEKHHSRHY
Sequence (three letter)	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

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*

