

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Data Sheet (Cat.No.TP1741L)



Histatin 5 acetate

Chemical Properties

CAS No.:

Formula: C135H199N51O35

Molecular Weight: 3096.35

Appearance: no data available

Storage: keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

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Biological Description

Description	Histatin 5 acetate inhibits the activity of the host matrix metalloproteinases MMP-2 and MMP-9 with IC50s of 0.57 and 0.25 μ M, respectively.
Targets(IC50)	MMP
In vitro	Histatin 5 is a member of a family of low-molecular-weight salivary proteins secreted by parotid, submandibular, and sublingual glands. Using biotinylated gelatin as a substrate, Histatin 5 is found to inhibit the activity of the host matrix metalloproteinases MMP-2 and MMP-9 with IC50s of 0.57 and 0.25 µM, respectively. To localize the domain responsible for this inhibition, three peptides containing different regions of Histatin 5 are synthesized and tested as inhibitors of MMP-9. Peptides comprising residues 1 to 14 and residues 4 to 15 of Histatin 5 show much lower inhibitory activities (IC50s, 21.4 and 20.5 µM, respectively), while a peptide comprising residues 9 to 22 showed identical activity to Histatin 5 against MMP-9. Kinetic analysis of the inhibition of the Arggingipain reveals that Histatin 5 is a competitive inhibitor, affecting only the Km with a Ki of 15 µM. Histatin 5 is an inhibitor of mitochondrial respiration. The human salivary antifungal peptide Histatin 5 is taken up by Candida albicans cells and associates intracellularly with mitochondria. Histatin 5 inhibits respiration of isolated C. albicans mitochondria as well as the respiration of intact blastoconidia in a dose and timedependent manner. Histatin 5 at a concentration of 33 uM inhibits state 2 respiration.

Preparing Stock Solutions

	1mg	5mg	10mg	
1 mM	0.323 mL	1.6148 mL	3.2296 mL	
5 mM	0.0646 mL	0.323 mL	0.6459 mL	
10 mM	0.0323 mL	0.1615 mL	0.323 mL	
50 mM	0.0065 mL	0.0323 mL	0.0646 mL	

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

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Reference

Gusman H, et al. Salivary histatin 5 is an inhibitor of both host and bacterial enzymes implicated in periodontal disease. Infect Immun. 2001 Mar;69(3):1402-8.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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