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Recombinant Lysostaphin

Catalog No.	CRL309A CRL309B CRL309C	Quantity:	1.0 mg 5.0 mg 10 mg
Alternate Names:	Glycyl-glycine endopeptidase		
Description:	Lysostaphin, an endopeptidase which is capable of cleaving the cross-linking pentaglycine bridges in the cell wall of <i>Staphylococci</i> , is an extremely potent anti-staphylococcal agent. Lysostaphin is used as a research and diagnostic tool. Because it lyses staphylococci efficiently, it is widely used when preparing staphylococcal DNA or other cellular components for genetic and biochemical studies, and for the preparation of protoplasts for transformation.		
Origin:	<i>Staphylococcus simulans</i>		
UniProt ID:	P10547		
Source:	Expressed in <i>E. coli</i>		
Molecular Weight:	26.9 kDa		
Formulation:	Lyophilized from a sterile filtered solution without additives.		
Purity:	≥ 97% as determined by RP-HPLC.		
Protein Determination:	Protein quantitation was assessed by two independent methods. 1. $E_{280\text{nm}}^{0.1\%} = 2.02$ 2. Analysis by RP-HPLC, using a calibrated solution of lysostaphin as a reference standard.		
Biological Activity:	Determined by the decrease in turbidity of a suspension of heat-killed <i>Staphylococcus aureus</i> at pH 8.0, 30 °C.		
Specific Activity:	> 3,500 U/mg		
Application Notes:	Lysostaphin has optimal stability in the range of pH 4.5, and optimal activity in the range of pH 8.0. Recommended stock solution: 10 mg/ml in 20 mM sodium acetate, pH 4.5. Recommended reaction buffer: 200 mM Tris-HCl pH 8.0. EDTA is inhibitory for zinc enzyme lysostaphin.		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in 20 mM sodium acetate, pH 4.5. After complete solubilization of the protein, it can be further diluted into other aqueous solutions such as 200 mM Tris-HCl, pH 8.0.		
Storage & Stability:	Upon receipt, store at -20°C to -80°C for up to 1 year. Reconstitute as directed and store stock solution in single-use aliquots at -20°C to -80°C at least 3 months. Avoid repeated freeze-thaw cycles.		

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