
Product Data Sheet

Product Name: Lysostaphin

Cat. No.: GP21896

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.

Synonyms Lysostaphin; EC 3.4.24.75; Glycyl-glycine endopeptidase.

Solubility It is recommended to reconstitute the lyophilized Lysostaphin in 20mM sodium acetate, pH 4.5 for optimal stability, which can then be further diluted to other aqueous solutions such as 200mM Tris HCL pH-8 for optimal activity.

Formulation The protein was lyophilized without any additives.

Introduction

Lysostaphin, an endopeptidase specific for the cell wall peptidoglycan of staphylococci, 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. Preparation and analysis of bacterial DNA has become a powerful tool used by clinical and other microbiologists in epidemiological studies aimed at tracing sources of infection or bacterial contamination.

Biological Activity

Assessed by the decrease in turbidity of a suspension of heat-killed *Staphylococcus aureus* at pH-8, 30°C. Lysostaphin is a zinc enzyme therefore EDTA is an inhibitory factor.

Stability

Lyophilized Lysostaphin although stable at room temperature for 2 weeks, should be stored desiccated below -18°C . Upon reconstitution Lysostaphin can be stored at 4°C up

Caution: Product has not been fully validated for medical applications. For research use only.

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to 3 weeks and for future use below -18°C .Please prevent freeze-thaw cycles.

Background

Lysostaphin Recombinant produced in E.Coli is a non-glycosylated polypeptide chain having a molecular mass of 26.92 kDa.

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