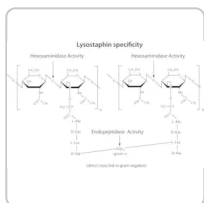


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SAE0091 ▶ **Sigma-Aldrich®**

Lysostaphin from *Staphylococcus staphylolyticus*

★★★★★ (0)

free of DNA contaminants, suitable for Microbiome research, lyophilized powder, ≥500 units/mg protein

Synonyme(s):

Lysostaphin from *Staphylococcus staphylolyticus*, Glycyl-glycine Endopeptidase

Numéro CAS: **9011-93-2**

Numéro de classification
(Commission des enzymes): **3.4.24.75 (BRENDA, IUBMB)**

Numéro MDL: **MFCD00131556**

Référence	Conditionnement	Disponibilité	Prix	Quantité
SAE0091-2MG	2 MG	Disponible pour expédition le 06 octobre 2022	Détails... 189,00 €	– +

[Demander une commande en gros](#)

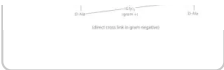
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PRODUITS RECOMMANDÉS

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BioUltra, ≥97% (SDS-PAGE), Protein 40-60 % by biuret, ≥2,000 units/mg protein



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PROPRIÉTÉS

Source biologique	microbial (<i>Staphylococcus staphyloxyticus</i>)
Forme	lyophilized powder
specific activity	≥500 units/mg protein
Poids mol.	27 kDa
Caractéristique	DNA free
Expédié(e)s dans	wet ice
Temp. de stockage	-20°C

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Catégories apparentées

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DESCRIPTION

Application

Purified extracellular lysostaphin from *S. staphylolyticus* SAE0091 undergoes strict quality control testing to ensure the absence of detectable levels of contaminating DNA using 35 cycles PCR amplification of 16S and 18S rDNA using universal primer sets. Lysostaphin is a zinc metalloenzyme isolated from a bacterial culture of *Staphylococcus staphylolyticus*. It has specific lytic action against other *Staphylococcus* species, including *S. aureus*.^{1,2} Lysostaphin has hexosaminidase, amidase, and endopeptidase activities. It cleaves polyglycine crosslinks in the cellular wall which leads to cell lysis of *Staphylococcus* species, but not of other bacterial genera. [Pharmaceuticals 2010, 3(4), 1139-1161] Lysostaphin is a single polypeptide chain of 246 amino acids, a molecular mass of 26,926 Da, isoelectric point of 9.5, (5) and an activity pH optimum of 7.5.(6)

Actions biochimiques/physiologiques

Lysostaphin is a zinc endopeptidase with a molecular weight of approximately 25 kDa. Because lysostaphin cleaves the polyglycine cross-links in the peptidoglycan layer of the cell wall of *Staphylococcus* species it has been found useful for cell lysis and also as a potential anti-microbial therapeutic. pH Optimum for activity: ~7.5.

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Définition de l'unité

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**forme physique**

Supplied as a lyophilized powder containing 50–70% protein with the balance primarily as NaCl.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms

GHS08

Mention d'avertissement

Danger

Mentions de danger

H334

Conseils de prudence

P261 - P284 - P501

Classification des risques

Resp. Sens. 1

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 3

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

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Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

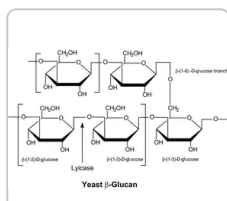
Rechercher

Plus De Documents

Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

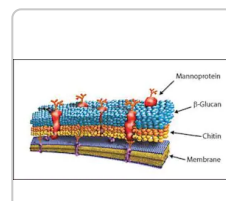


Sigma-Aldrich

SAE0098

Lyticase from *Arthrobacter luteus*

free of DNA contaminants, suitable for Microbiome research, ≥2000 units/mg protein, lyophilized powder



Sigma-Aldrich

SRE0018

Lyticase from *Arthrobacter luteus*

Suitable for manufacturing of diagnostic kits and reagents, lyophilized powder, ≥2000 units/mg protein

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ARTICLES REVUS PAR DES PAIRS

Reduced Innate Immune Response to a Staphylococcus aureus Small Colony Variant Compared to Its Wild-Type Parent Strain.

Judy J J Ou et al.

Frontiers in cellular and infection microbiology, 6, 187-187 (2017-01-14)

Background: Staphylococcus aureus (S. aureus) small colony variants (SCVs) can survive within the host intracellular milieu and are associated with chronic relapsing infections. However, it is unknown whether host invasion rates and immune responses differ between SCVs and their wild-type counterparts.

Dynamics of the Human Nasal Microbiota and Staphylococcus aureus CC398 Carriage in Pig Truck Drivers across One Workweek.

Anna Căcilia Ingham et al.

Applied and environmental microbiology, 87(18), e0122521-e0122521 (2021-07-01)

Drivers of pig trucks constitute a potential route of human transmission of livestock-associated methicillin-resistant Staphylococcus aureus clonal complex 398 (LA-MRSA CC398). In this study, we determined MRSA prevalence in pig truck drivers (n = 47) and monitored the nasal microbiota of 9

Changes in Skin and Nasal Microbiome and Staphylococcal Species Following Treatment of Atopic Dermatitis with Dupilumab.

Caroline Meyer Olesen et al.

Microorganisms, 9(7) (2021-08-08)

Investigation of changes in the skin microbiome following treatment of atopic dermatitis (AD) with dupilumab may provide valuable insights into the skin microbiome as a therapeutic target. The aim of this study is to assess changes in the AD skin

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The pathophysiology in atopic dermatitis (AD) is not fully understood, but immune dysfunction, skin barrier defects, and alterations of the skin microbiota are thought to play important roles. AD skin is frequently colonized with *Staphylococcus aureus* (S. aureus) and microbial

Target cell specificity of a bacteriocin molecule: a C-terminal signal directs lysostaphin to the cell wall of *Staphylococcus aureus*.

T Baba et al.

The EMBO journal, 15(18), 4789-4797 (1996-09-16)

Microbial organisms secrete antibiotics that cause the selective destruction of specific target cells. Although the mode of action is known for many antibiotics, the mechanisms by which these molecules are directed specifically to their target cells hitherto have not been

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Lysing Enzymes

Enzymes provide a non-mechanical method for cell lysis and protoplast preparation. It may seem like a simple process to throw in your enzyme, stick your tube in the water-bath and walk away, but what is actually going on in that process?

Human Microbiome Research Workflow: An Overview of the Role in Human Health and Disease

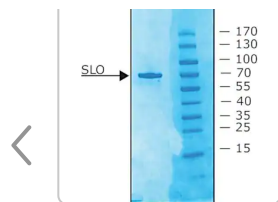
An overview of human microbiome research, workflow challenges, sequencing, library production, data analysis, and available microbiome reagents to support your research.

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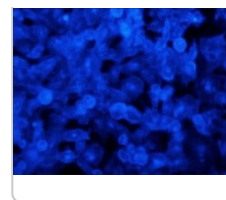
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SAE0089

Streptolysin O from *Streptococcus pyogenes*
≥1,000,000 units/mg protein, recombinant, lyophilized powder, expressed in *E. coli*

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SAE0088

Filipin complex ready made solution
from *Streptomyces filipinensis*, 5mg/ml in DMSO based solution

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