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62970 ► **Sigma-Aldrich.**

Lysozyme from chicken egg white

★★★★★ (0)

dialyzed, lyophilized, powder, ~100000 U/mg

Synonyme(s):

Mucopeptide *N*-acetylmuramoylhydrolase, Muramidase

Numéro CAS: **12650-88-3**

Numéro EC: **235-747-3**

NACRES: NA.54

Numéro de classification
(Commission des enzymes): **3.2.1.17 (BRENDA, IUBMB)**

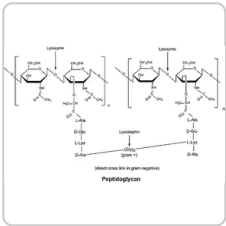
Numéro MDL: **MFCD00131557**

Référence	Conditionnement	Disponibilité	Prix	Quantité
62970-1G-F	1 G	✓ Disponible pour expédition le 05 octobre 2022	Détails... 54,00 €	- + 
62970-5G-F	5 G	✓ Disponible pour expédition le 05 octobre 2022	Détails... 188,00 €	- + 

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PRODUITS RECOMMANDÉS



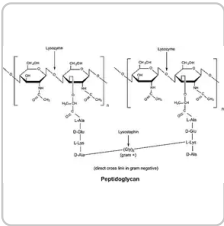
Sigma-Aldrich

L6876

Lysozyme from chicken egg white

lyophilized powder, protein ≥90 %, ≥40,000 units/mg protein

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

L4919

Lysozyme from chicken egg white

BioUltra, lyophilized powder, ≥98% (SDS-PAGE), ≥40,000 units/mg protein

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Forme	powder
Niveau de qualité	100
Qualité	dialyzed lyophilized
specific activity	~100000 U/mg
Poids mol.	single-chain 14.3 kDa M _r ~14600
N° d'accension UniProt	P00698
Temp. de stockage	2-8°C

Gene Information

chicken ... [LYZ\(396218\)](#)

Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

Catégories apparentées[Whole Cell Lysis Reagents & Enhancers](#)**DESCRIPTION****Application**

Lysozyme from chicken egg white has been used:

- as a standard in small-angle neutron scattering experiments and infrared absorbance spectroscopy
- as a constituent of cell lysis buffer
- in protein crystallization experiments

Enzyme breaks down the cell walls of bacteria; used to prepare spheroplasts.

Actions biochimiques/physiologiques

Lysozyme hydrolyzes $\beta(1\rightarrow4)$ linkages between *N*-acetylmuramic acid and *N*-acetyl-D-glucosamine residues in peptidoglycan and between *N*-acetyl-D-glucosamine residues in chitodextrin. Gram-positive cells are quite susceptible to this hydrolysis as their cell walls have a high proportion of peptidoglycan. Gram-negative bacteria are less susceptible due to the presence of an outer membrane and a lower proportion of peptidoglycan. However, these cells may be hydrolyzed in the presence of EDTA that chelates metal ions in the outer bacterial membrane.

The enzyme is active over a broad pH range (6.0 to 9.0). At pH 6.2, maximal activity is observed over a wider range of ionic strengths (0.02 to 0.100 M) than at pH 9.2 (0.01 to 0.06 M).

Définition de l'unité

1 U corresponds to the amount of enzyme which decreases the absorbance at 450 nm by 0.001 per minute at pH 7.0 and 25°C (Micrococcus luteus, ATCC 4698, as substrate)

Autres remarques

Suitable for the hydrolysis of bacterial cell walls, mucopolysaccharides, mucopolypeptides or chitin; degradability of *L. lactis* subsp. *cremoris* H2 cell walls; Review

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

Équipement de protection individuelle

Eyeshields, Gloves, type N95 (US)

DOCUMENTATION

Certificat d'analyse

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

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

Saisir un numéro de lot pour rechercher un certificat d'origine (COO).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

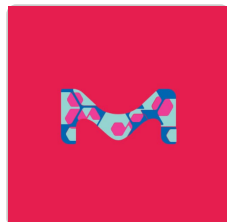
Rechercher

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[FDS](#)

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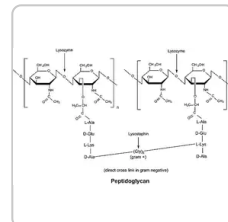
Sigma-Aldrich

L2879

Lysozyme chloride form from chicken egg white

Grade VI, ≥35,000 units/mg protein (E1%/282)

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

L8402

Lysozyme from human neutrophils

≥95% (SDS-PAGE), lyophilized powder,
≥100,000 units/mg protein (E1%/280)

[Consulter le prix et la disponibilité](#)

QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

ARTICLES REVUS PAR DES PAIRS

Stability and Specificity of the Cell Wall-Associated Proteinase from *Lactococcus lactis* subsp. *cremoris* H2 Released by Treatment with Lysozyme in the Presence of Calcium Ions.

T Coolbear et al.

Applied and environmental microbiology, 58(10), 3263-3270 (1992-10-01)

The cell wall-associated proteinase from *Lactococcus lactis* subsp. *cremoris* H2 (isolate number 4409) was released from the cells by treatment with lysozyme, even in the presence of 50 mM calcium chloride. Cell lysis during lysozyme treatment was minimal. The proteinase

R.W. Franck

Bioorganic Chemistry, 20, 77-77 (1992)

What's new in lysozyme research? Always a model system, today as yesterday.

P Jollès et al.

Molecular and cellular biochemistry, 63(2), 165-189 (1984-09-01)

The present review is focused on the main achievements realized in the lysozyme research field since the meeting held in 1972 to commemorate the fiftieth anniversary of the discovery of this enzyme. Despite of extensive structural, physico-chemical, crystallographic, genetic, immunological

Structures and interactions among lysozyme proteins below the isoelectric point in presence of divalent ions

Pandit S, et al.

Chemical Physics Letters, 711, 8-14 (2018)

L. Stevens

Comp. Biochem. Physiol., B: Comp. Biochem., 100, 1-1 (1991)

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

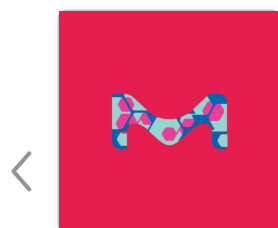
HPLC Analysis of Proteins by Cation Exchange on Proteomix® WCX-NP5: Affect of pH

Separation of Ribonuclease A from bovine pancreas, Type I-A, powder, ≥60% RNase A basis (SDS-PAGE), ≥50 Kunitz units/mg protein; α-Chymotrypsinogen A from bovine pancreas, essentially salt-free, lyophilized powder; Cytochrome c from bovine heart, ≥95% based on Mol. Wt....

HPLC Analysis of Proteins by Cation Exchange on Proteomix® WCX: Affect of Particle Size

Separation of Ribonuclease A from bovine pancreas, Type I-A, powder, ≥60% RNase A basis (SDS-PAGE), ≥50 Kunitz units/mg protein; α-Chymotrypsinogen A from bovine pancreas, essentially salt-free, lyophilized powder; Cytochrome c from bovine heart, ≥95% based on Mol. Wt....

PRODUITS CONSULTÉS RÉCEMMENT



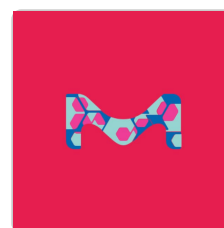
Sigma-Aldrich

62963

L-α-Lysophosphatidylcholine

from soybean, ≥98.0% (10 mg phospholipid per ml CHCl₃, TLC)

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

62962

L-α-Lysophosphatidylcholine

egg yolk, ≥99.0% (TLC)

[Consulter le prix et la disponibilité](#)

Évaluations



Soyez le premier à donner votre avis sur ce produit

Questions

Soyez le premier à poser une question

SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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