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Documents

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 [Fiche des caractéristiques](#)

Plus de documents 

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 \(BRENDA, IUBMB\)](#)

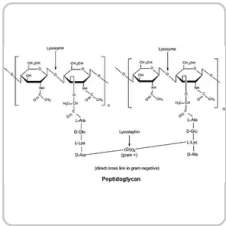
Numéro MDL: [MFCD00131557](#)

| Référence  | Conditionnement | Disponibilité                                                                                                                     | Prix                                | Quantité                                                                                                                  |
|------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| 62970-1G-F | 1 G             |  Disponible pour expédition le 05 octobre 2022   | <a href="#">Détails...</a> 54,00 €  | <div><div>-</div><div>+</div></div>   |
| 62970-5G-F | 5 G             |  Disponible pour expédition le 05 octobre 2022 | <a href="#">Détails...</a> 188,00 € | <div><div>-</div><div>+</div></div>  |

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PRODUITS RECOMMANDÉS

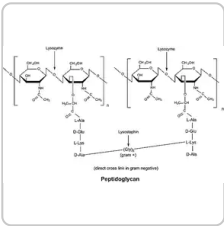


Sigma-Aldrich

**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<br>lyophilized                        |
| specific activity      | ~100000 U/mg                                   |
| Poids mol.             | single-chain 14.3 kDa<br>M <sub>r</sub> ~14600 |
| N° d'accension UniProt | <b>P00698</b>                                  |
| 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)

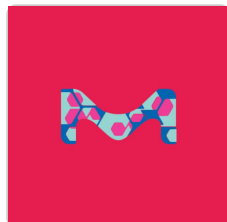
Rechercher

## Plus De Documents

[Enzyme Explorer](#)

[FDS](#)

## LES CLIENTS ONT ÉGALEMENT CONSULTÉ



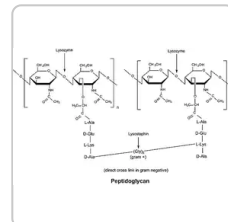
Sigma-Aldrich

**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](#).

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## 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

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**R.W. Franck**

*Bioorganic Chemistry*, 20, 77-77 (1992)

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### 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

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### 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)

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**L. Stevens**

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

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### Afficher tous les articles scientifiques apparentés

## PROTOCOLES ET ARTICLES SCIENTIFIQUES

### Articles

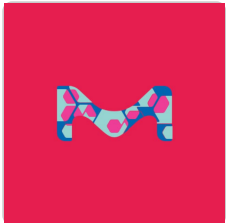
#### HPLC Analysis of Proteins by Cation Exchange on Proteomix® WCX-NP5: Affect of pH

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

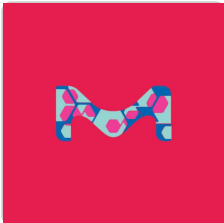
Separation of Ribonuclease A from bovine pancreas, Type I-A, powder, ≥60% RNase A basis (SDS-PAGE), ≥50 Kunitz units/mg protein; α-Chymotrypsinogen A from bovine pancreas, essentially salt-free, lyophilized powder; Cytochrome c from bovine heart, ≥95% based on Mol. Wt....

## PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich  
**62963**  
**L-α-Lysophosphatidylcholine**  
from soybean, ≥98.0% (10 mg phospholipid per ml CHCl<sub>3</sub>, 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

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## 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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