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**P5380** ▶ **Sigma-Aldrich.**

# Protease from *Bacillus licheniformis*

★★★★★ (0)

Type VIII, lyophilized powder, 7-15 units/mg solid

## Synonyme(s):

Proteinase from *Bacillus licheniformis*, Subtilisin A

Numéro CAS: **9014-01-1**

Numéro EC: **232-752-2**

NACRES: NA.54

Numéro de classification  
(Commission des enzymes):

**3.4.21.62 (BRENDA, IUBMB)**

Numéro MDL:

**MFCD00132092**

| Référence  | Conditionnement | Disponibilité                                                       | Prix    | Quantité                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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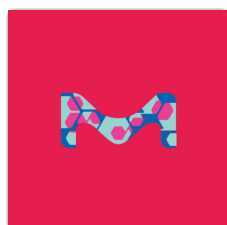
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## PRODUITS RECOMMANDÉS



Sigma-Aldrich

**P4860**

Protease from *Bacillus licheniformis*

≥2.4 U/g

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

**P3910**

Protease from *Bacillus licheniformis*

lyophilized powder, for use in Total Dietary Fiber Assay, TDF-100A

[Consulter le prix et la disponibilité](#)

## PROPRIÉTÉS

Source biologique *Bacillus licheniformis*

Niveau de qualité 200

Type Type VIII

Forme lyophilized powder

specific activity 7-15 units/mg solid

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|                   |                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------|
| <b>Solubilité</b> | 10 mM NaAc (pH 7.5) and 5 mM CaAc: soluble, clear<br>H <sub>2</sub> O: soluble, colorless |
|-------------------|-------------------------------------------------------------------------------------------|

---

|                           |                                                                       |
|---------------------------|-----------------------------------------------------------------------|
| <b>Activité étrangère</b> | DNase ≤5.0 Kunitz units/mg solid<br>RNase ≤0.05 Kunitz units/mg solid |
|---------------------------|-----------------------------------------------------------------------|

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|                          |       |
|--------------------------|-------|
| <b>Temp. de stockage</b> | -20°C |
|--------------------------|-------|

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

**Catégories apparentées**

[Proteases](#)

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## DESCRIPTION

### Description générale

The enzyme is found to be stable at pH 8-10, retaining activity of up to 90% for 24 hours. It shows maximum activity at temperatures between 55-60 °C.

### Spécificité

*Subtilisin A* is a member of the Serine S8 Endoproteinase family. It has broad specificity with a preference for a large uncharged residue in the P1 position. It hydrolyzes native and denatured proteins, and is active under alkaline conditions.

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The product has been used with other enzymes for *in situ* proteolysis to produce crystals suitable for structure determination. It has also been used in the process of isolation of subsarcolemmal (SS) and intermyofibrillar (IMF) mitochondria that can be used for functional *in vitro* studies.

This is a proteolytic enzyme isolated from the fermentation of *Bacillus licheniformis*. It is a serine endoproteinase with a broad specificity towards native and denatured proteins, and is active under alkaline conditions.

## Conditionnement

25 mg in poly bottle

100, 250 mg in glass bottle

1 g in glass bottle

## Actions biochimiques/physiologiques

Protease catabolizes proteins by hydrolysis of peptide bonds. Proteases are inactivated by serine active-site inhibitors, such as phenylmethylsulfonyl fluoride (PMSF) and diisopropylfluorophosphate. Protease, Product P5380, is a serine endoproteinase with a broad specificity towards native and denatured proteins, and is active under alkaline conditions. It is active in some organic solvents such as dry octane.

## Propriétés physiques

*Subtilisin* is a non-glycosylated single polypeptide chain without disulfide bonds and has a molecular weight of 27 KDa.

## Définition de l'unité

One unit will hydrolyze casein to produce color equivalent to 1.0  $\mu$ mole (181  $\mu$ g) of tyrosine per min at pH 7.5 at 37 °C (color by Folin-Ciocalteu reagent).

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**Pictograms**

GHS05,GHS07,GHS08,GHS09

**Mention d'avertissement**

Danger

**Mentions de danger**

H302 - H315 - H318 - H334 -  
H335 - H410

**Conseils de prudence**

P261 - P273 - P280 - P301 +  
P312 - P302 + P352 - P305 +  
P351 + P338

**Classification des risques**

Acute Tox. 4 Oral - Aquatic  
Acute 1 - Aquatic Chronic 2 -  
Eye Dam. 1 - Resp. Sens. 1 -  
Skin Irrit. 2 - STOT SE 3

**Organes cibles**

Respiratory system

**Code de la classe de stockage**

11 - Combustible Solids

**WGK**

WGK 1

**Flash Point(F)**

Not applicable

**Point d'éclair C**

Not applicable

**Équipement de protection individuelle**

dust mask type N95 (US),  
Eyeshields, Faceshields,  
Gloves

**DOCUMENTATION****Certificat d'analyse**

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

Numéro de lot

e.g. 023J5431

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## 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)

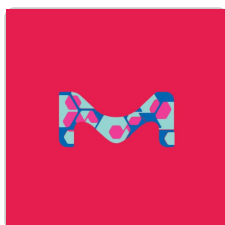
Rechercher

## Plus De Documents

Enzyme Explorer

FDS

## LES CLIENTS ONT ÉGALEMENT CONSULTÉ

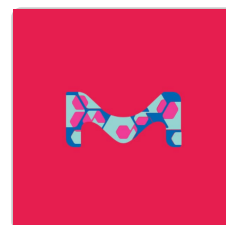


Sigma-Aldrich

**P5985**

Protease from *Bacillus* sp.

liquid,  $\geq 16$  U/g



Sigma-Aldrich

**P6110**

Protease from *Aspergillus oryzae*

$\geq 500$  U/g



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## ARTICLES REVUS PAR DES PAIRS

### Assessment of DNA Ploidy in the ProMisE molecular subgroups of endometrial cancer.

**L Proctor et al.**

*Gynecologic oncology*, 146(3), 596-602 (2017-06-26)

We sought to determine whether DNA ploidy correlates with the four molecular subgroups of endometrial carcinoma (EC) as determined using ProMisE (Proactive Molecular Risk Classifier for Endometrial Cancer). 90 cases of EC previously characterized by clinicopathological parameters, outcomes, and ProMisE

### A Single-Cell Atlas of the Human Healthy Airways.

**Marie Deprez et al.**

*American journal of respiratory and critical care medicine*, 202(12), 1636-1645 (2020-07-30)

Rationale: The respiratory tract constitutes an elaborate line of defense that is based on a unique cellular ecosystem. Objectives: We aimed to investigate cell population distributions and transcriptional changes along the airways by using single-cell RNA profiling. Methods: We have explored the

### Rosiglitazone increases fatty acid oxidation and fatty acid translocase (FAT/CD36) but not carnitine palmitoyltransferase I in rat muscle mitochondria.

**Carley R Benton et al.**

*The Journal of physiology*, 586(6), 1755-1766 (2008-02-02)

Peroxisome proliferator-activated receptors (PPARs) alter the expression of genes involved in regulating lipid metabolism. Rosiglitazone, a PPARgamma agonist, induces tissue-specific effects on lipid metabolism; however, its mode of action in skeletal muscle remains unclear. Since fatty acid translocase (FAT/CD36) was

### Structural basis of actin monomer re-charging by cyclase-associated protein.

**Tommi Kotila et al.**

*Nature communications*, 9(1), 1892-1892 (2018-05-16)

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## Short-Term High-Fat Feeding Does Not Alter Mitochondrial Lipid Respiratory Capacity but Triggers Mitophagy Response in Skeletal Muscle of Mice.

**Sarah E Ehrlicher et al.**

*Frontiers in endocrinology, 12, 651211-651211 (2021-04-20)*

Lipid overload of the mitochondria is linked to the development of insulin resistance in skeletal muscle which may be a contributing factor to the progression of type 2 diabetes during obesity. The targeted degradation of mitochondria through autophagy, termed mitophagy

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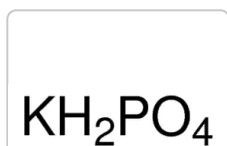
## PROTOCOLES ET ARTICLES SCIENTIFIQUES

### Protocoles

#### Immunohistochemistry Procedure

Use this protocol to for the entire immunohistochemistry (IHC) procedure through staining and visualization of specific antigens in paraffin-embedded tissue sections.

## PRODUITS CONSULTÉS RÉCEMMENT

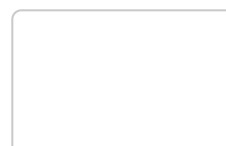


Sigma-Aldrich

**P5379**

Potassium phosphate monobasic

ReagentPlus®



Sigma-Aldrich

**P5368**

Phosphate buffered saline

BioPerformance Certified. pH 7.4

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## Évaluations

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[Soyez le premier à poser une question](#)

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