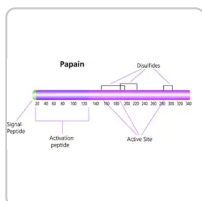


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Documents



FDS



COO/COA



Fiche des
caractéristiques

Plus de
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P4762 ▶ **Sigma-Aldrich.**

Papain from papaya latex

★★★★★ (0)

lyophilized powder, ≥10 units/mg protein

Synonyme(s):

Papainase

Numéro CAS: **9001-73-4**

Numéro EC: **232-627-2**

eCl@ss: 42030311

Numéro de classification
(Commission des enzymes):

3.4.22.2 (BRENDA, IUBMB)

Numéro MDL:

MFCD00131791

NACRES:

NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
P4762-25MG	25 MG	✓ Only 5 left in stock (more on the way) Détails...	63,10 €	- + i
P4762-50MG	50 MG	✓ Only 3 left in stock (more on the way) Détails...	111,00 €	- + i
P4762-100MG	100 MG	✓ Only 4 left in stock (more on the way) Détails...	194,00 €	- + i
P4762-500MG	500 MG	✓ Only 3 left in stock (more on the way) Détails...	730,00 €	- + i

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the way,

P4762-5G

5 G

✓ Only 1 left in stock (more on the way)

[Détails...](#)

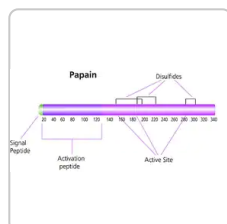
2 620,00 €

-

+


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[Ajouter au panier](#)

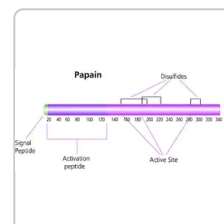
PRODUITS RECOMMANDÉS



Sigma-Aldrich

P3125**Papain from papaya latex**

buffered aqueous suspension, 2× Crystallized,
≥16 units/mg protein

[Consulter le prix et la disponibilité](#)


Sigma-Aldrich

P3375**Papain from papaya latex**

crude powder, 1.5-10 units/mg solid

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PROPRIÉTÉS

Source biologique

papaya (latex)

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specific activity	≥10 units/mg protein
Poids mol.	23.4 kDa
application(s)	diagnostic assay manufacturing
Temp. de stockage	-20°C

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

Catégories apparentées

Tissue Dissociation

DESCRIPTION

Description générale

Papain is a cysteine protease, found in *Carica papaya*. It is composed of a single polypeptide chain containing three disulfide bridges and a sulfhydryl group.

Application

Papain from papaya latex has been used:

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- for cell dissociation since it has been shown to be more effective and less damaging with certain tissues
- in the enzyme cocktail for dissociating human fetal retinal tissue
- to digest chondrocytes/scaffold cultures for total DNA quantification for cell proliferation
- as a supplement in neurobasal medium to produce retinal cell suspensions

Used to produce Fab fragments of antibodies. Also used for cell dissociation since it has been shown to be more effective and less damaging with certain tissues.

Conditionnement

25 mg in poly bottle

50, 100, 500 mg in glass bottle

1, 5 g in glass bottle

Package size based on protein content

Actions biochimiques/physiologiques

Papain with wide specificity, cleaves peptide bonds of basic amino acids, leucine or glycine. It also hydrolyzes esters and amides. Papain is considered to digest protein substrates more broadly than the pancreatic proteases. Papain is commonly used in cell isolation procedures as it is highly efficient and less harmful than other proteases on certain tissues. The use of papain is known to yield more viable smooth muscle cells, retaining the cell's sensitivity to stimulants. Papain papaya latex has antifungal activity against *C. albicans* and is a cysteine protease.

- The pH optimum is 6.0-7.0
- Papain hydrolyzes esters and amides

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[GET YOURS HERE](#)**Définition de l'unité**

One unit will hydrolyze 1.0 micromole of N-alpha-benzoyl-L-arginine ethyl ester (BAEE) per minute at pH 6.2 at 25 deg C.

Forme physique

Lyophilized powder containing sodium acetate

Notes préparatoires

2× Crystallized

Autres remarques

View more information on [papain](#) at www.sigma-aldrich.com/enzymeexplorer.

PRODUITS APPARENTÉS**Inhibiteur****E3132**

E-64, protease inhibitor

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[GET YOURS HERE](#)[View Pricing](#)**D7910**

3,4-Dichloroisocoumarin, serine protease inhibitor

[View Pricing](#)**E3520**

Ebselen, cysteine modifier

[View Pricing](#)**L2023**

Leupeptin trifluoroacetate salt, ≥90% (HPLC), microbial

[View Pricing](#)**A6191**

Antipain dihydrochloride from microbial source, protease inhibitor

[View Pricing](#)**G5386**

Gly-Gly-Tyr-Arg, ≥97% (HPLC)

[View Pricing](#)

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Substrat**P3169**

pGlu-Phe-Leu p-nitroanilide, protease substrate

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INFORMATIONS SUR LA SÉCURITÉ**Pictograms**

GHS07,GHS08

Mention d'avertissement

Danger

Mentions de danger

H315 - H319 - H334 - H335

Conseils de prudence

P302 + P352 - P305 + P351 +
P338

Classification des risques

Eye Irrit. 2 - 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),
Eyesields, Faceshields,

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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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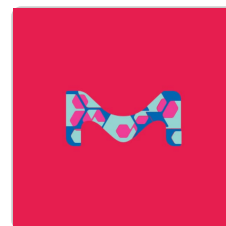


SAFC

1.07147

Papain 6000 USP-U/mg

stabilized with sodium disulfite EMPROVE® ESSENTIAL



Sigma-Aldrich

B4882

Bromelain from pineapple stem

≥3 units/mg protein

[Consulter le prix et la disponibilité](#)

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Immunopanning purification and long-term culture of human retinal ganglion cells

Zhang XM, et al.

Molecular Vision, 16(1), 2867-2867 (2010)

PAPAIN ENZYME: A DIGESTIVE AID

PATEL T

International Journal of Clinical and Biomedical Research, 2(1), 52-53 (2016)

Studies on Papaya Leaf Tea, 25-25 (2009)

Recent advances in chemoenzymatic peptide syntheses

Yazawa K and Numata K

Molecules (Basel), 19(9), 13755-13774 (2014)

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Papain, Cysteine Protease, Properties & Products

Papain is a cysteine protease of the peptidase C1 family. Papain consists of a single polypeptide chain with three disulfide bridges and a sulfhydryl group necessary for activity of the enzyme.

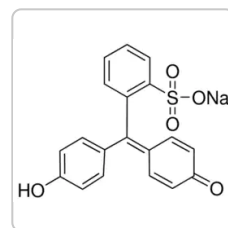
PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

P4761**Poly-L-glutamic acid sodium salt**

mol wt 15,000-50,000

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

P4758**Phenol Red sodium salt**[Consulter le prix et la disponibilité](#)

Évaluations

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