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Documents



FDS



COO/COA



Fiche des
caractéristiques

Plus de
documents


P2308 ▶ **Sigma-Aldrich.**

Proteinase K from *Tritirachium album*

★★★★★ 5.0 (1)

lyophilized powder, BioUltra, ≥30 units/mg protein, for molecular biology

Synonyme(s):

Endopeptidase K

Numéro CAS: **39450-01-6**

Numéro EC: **254-457-8**

eCl@ss: 32160410

Numéro de classification
(Commission des enzymes):

3.4.21.64 (BRENDA, IUBMB)

Numéro MDL:

MFCD00132129

NACRES:

NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
P2308-5MG	5 MG	✓ Only 3 left in stock (more on the way) Détails... Les fabricants de produits de diagnostic devraient utiliser un produit d'une autre qualité : SRE0005	61,90 €	- + i
P2308-10MG	10 MG	✓ Disponible pour expédition le 10 octobre 2022 Détails...	66,70 €	- + i
P2308-25MG	25 MG	✓ Only 3 left in stock (more on the way) Détails...	92,90 €	- + i

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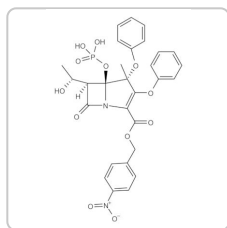
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P2308-500MG	500 MG	Only 2 left in stock (more on the way)	Détails...	917,00 €	- +	
P2308-1G	1 G	Only 3 left in stock (more on the way)	Détails...	1810,00 €	- +	

[Demander une commande en gros](#)
[Ajouter au panier](#)

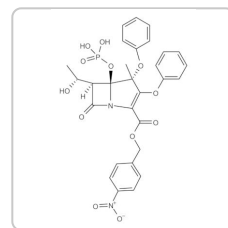
PRODUITS RECOMMANDÉS



Sigma-Aldrich

P6556**Proteinase K from *Tritirachium album***

lyophilized powder, ≥30 units/mg protein

[Consulter le prix et la disponibilité](#)


Sigma-Aldrich

P4850**Proteinase K from *Tritirachium album***

buffered aqueous glycerol solution, for molecular biology, ≥800 units/mL

[Consulter le prix et la disponibilité](#)

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Qualité	for molecular biology
---------	-----------------------

Niveau de qualité	400
-------------------	-----

Gamme de produits	BioUltra
-------------------	----------

Forme	lyophilized powder
-------	--------------------

specific activity	≥30 units/mg protein
-------------------	----------------------

Poids mol.	28.93 kDa
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Composition	Protein, ≥90% biuret
-------------	----------------------

Impuretés	≤1 ppm DNA
-----------	------------

Activité étrangère	DNAse, Nickase and RNAse, none detected
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Expédié(e)s dans	wet ice
------------------	---------

Temp. de stockage	-20°C
-------------------	-------

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

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Application

Useful for the proteolytic inactivation of nucleases during the isolation of DNA and RNA.

Removes endotoxins that bind to cationic proteins such as lysozyme and ribonuclease A.

Reported useful for the isolation of hepatic, yeast, and mung bean mitochondria

Determination of enzyme localization on membranes

Treatment of paraffin embedded tissue sections to expose antigen binding sites for antibody labeling.

Digestion of proteins from brain tissue samples for prions in Transmissible Spongiform Encephalopathies (TSE) research.

Conditionnement

5 mg in glass bottle

10, 25, 100, 500 mg in poly bottle

1 g in poly bottle

Actions biochimiques/physiologiques

Proteinase K is a stable and highly reactive serine protease. Evidence from crystal and molecular structure studies indicates the enzyme belongs to the subtilisin family with an active-site catalytic triad (Asp³⁹-His⁶⁹-Ser²²⁴). It is stable in a broad range of environments: pH, buffer salts, detergents (SDS), and temperature. In the presence of 0.1-0.5% SDS, proteinase K retains activity and will digest a variety of proteins and nucleases in DNA preparations without compromising the integrity of the isolated DNA.

Définition de l'unité

One unit will hydrolyze urea-denatured hemoglobin to produce color equivalent to 1.0 μ mole of tyrosine per min at pH 7.5 at 37 °C (color by Folin-Ciocalteu reagent).

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Gants Suggérés Pour Une Protection Contre Les Projections

Z677256

Dermatril™ nitrile gloves, size XS

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Z677264

Dermatril™ nitrile gloves, size S

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Z677272

Dermatril™ nitrile gloves, size M

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Z677280

Dermatril™ nitrile gloves, size L

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Z677299

Dermatril™ nitrile gloves, size XL

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[GET YOURS HERE](#)[View Pricing](#)**Produit Apparenté****P4850**

Proteinase K from *Tritirachium album*, buffered aqueous glycerol solution, for molecular biology, ≥ 800 units/mL

[View Pricing](#)**A6964**

Accutase[®] solution, sterile-filtered, suitable for cell culture

[View Pricing](#)**Produit Comparable****SRE0005**

Proteinase K from *Tritirachium album*, Reagents designed and manufactured under current ISO 13485 certification.

[View Pricing](#)**Souvent Commandé Avec Ce Produit**

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[GET YOURS HERE](#)**L6876**

Lysozyme from chicken egg white, lyophilized powder, protein $\geq 90\%$, $\geq 40,000$ units/mg protein

[View Pricing](#)**R6513**

Ribonuclease A from bovine pancreas, for molecular biology, ≥ 70 Kunitz units/mg protein, lyophilized

[View Pricing](#)**Z375357**

Bright-Line™ Hemacytometer replacement cover slip, replacement cover slip for the Bright-Line Hemacytometer: Z359629

[View Pricing](#)

INFORMATIONS SUR LA SÉCURITÉ

Pictograms**GHS08****Mention d'avertissement**

Danger

Mentions de danger

H315 - H319 - H334

Conseils de prudence

**P261 - P264 - P280 - P284 -
P302 + P352 - P305 + P351 +
P338**

Classification des risques**Code de la classe de****WGK****Flash Point(F)**

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Point d'éclaircissement

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

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

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Fiches Techniques

Data Sheet - P2308

Plus De Documents

Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

P4032

Proteinase from *Aspergillus melleus*

Type XXIII, ≥ 3 units/mg solid

Consulter le prix et la disponibilité



Roche

RPROTKSOL-RO

Proteinase K, recombinant, PCR Grade

Solution from *Pichia pastoris*

Consulter le prix et la disponibilité



QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

How should I prepare solutions of Product P2308, Proteinase K?

Solutions can be prepared in 25-50 mM Tris-HCl buffer, pH 8.0, containing 1-5 mM Calcium chloride.

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What is the recommended pH range for Product P2308, Proteinase K?

Proteinase K is normally used in the pH range of 7.5-8.0.

What amount of Product P2308, Proteinase K, should I use for nucleic acid preparations?

Amounts for typical usage is 50-200 µg/mL.

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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Microfluidic PCR Amplification and MiSeq Amplicon Sequencing Techniques for High-Throughput Detection and Genotyping of Human Pathogenic RNA Viruses in Human Feces, Sewage, and Oysters.

Mamoru Oshiki et al.

Frontiers in microbiology, 9, 830-830 (2018-05-15)

Detection and genotyping of pathogenic RNA viruses in human and environmental samples are useful for monitoring the circulation and prevalence of these pathogens, whereas a conventional PCR assay followed by Sanger sequencing is time-consuming and laborious. The present study aimed

Coordination of Hepatitis C Virus Assembly by Distinct Regulatory Regions in Nonstructural Protein 5A.

Margarita Zayas et al.

PLoS pathogens, 12(1), e1005376-e1005376 (2016-01-05)

Hepatitis C virus (HCV) nonstructural protein (NS)5A is a RNA-binding protein composed of a N-terminal membrane anchor, a structured domain I (DI) and two intrinsically disordered domains (DII and DIII) interacting with viral and cellular proteins. While DI and DII

Curcumin ameliorates nephrosclerosis via suppression of histone acetylation independent of hypertension.

Kumiko Muta et al.

Nephrology, dialysis, transplantation : official publication of the European Dialysis and Transplant Association - European Renal Association, 31(10), 1615-1623 (2016-05-18)

Although histone acetylation, an epigenetic modification, has been reported to be related to the progression of various diseases, its involvement in nephrosclerosis is unclear. Dahl salt-sensitive rats were used as a model of nephrosclerosis in this study. The rats were

Effect of wet storage conditions on potato tuber transcriptome, phytohormones and growth.

Bahram Peivastegan et al.

BMC plant biology, 19(1), 262-262 (2019-06-19)

Stored potato (*Solanum tuberosum* L.) tubers are sensitive to wet conditions that can cause rotting in long-term storage. To study the effect of water on the tuber surface during storage, microarray analysis, RNA-Seq profiling, qRT-PCR and phytohormone measurements were performed

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Oestrogen controls Foxp3 expression in regulatory T cells (Treg cells) via a mechanism thought to involve oestrogen receptor alpha (ER α), but the molecular basis and functional impact of ER α signalling in Treg cells remain unclear. We report that ER α ligand

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Enzymatic Assay of Proteinase K with Hemoglobin Substrate

Proteinase K (EC 3.4.21.64) activity can be measured spectrophotometrically using hemoglobin as the substrate. Proteinase K hydrolyzes hemoglobin denatured with urea, and liberates Folin-positive amino acids and peptides. One unit will hydrolyze hemoglobin to produce color...

Protocoles

GenElute™ Blood Genomic DNA Kit Protocol

GenElute™ Mammalian Genomic DNA Miniprep Kit Protocol

The GenElute Mammalian Genomic DNA Purification Kit Protocol describes the isolation of pure, high molecular weight DNA from a variety of mammalian sources.

Enzymatic Assay of Proteinase K (EC 3.4.21.64)

Proteinase K (EC 3.4.21.64) activity can be measured spectrophotometrically using hemoglobin as the substrate. Proteinase K hydrolyzes hemoglobin denatured with urea, and liberates Folin-positive amino acids and peptides. One unit will hydrolyze hemoglobin to produce color...

GenElute™ Bacterial Genomic DNA Kit Protocol (NA2100, NA2110, NA2120)

GenElute™ Bacterial Genomic DNA Kit protocol describes a simple and convenient way for the isolation of pure genomic DNA from bacteria.

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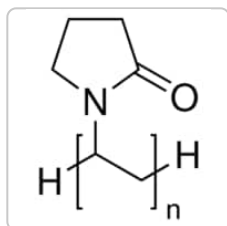
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PRODUITS CONSULTÉS RÉCEMMENT



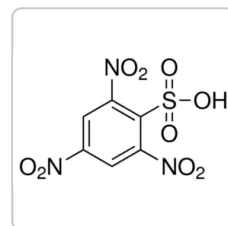
Sigma-Aldrich

P2307

Polyvinylpyrrolidone

suitable for plant cell culture, average mol wt 10,000

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

P2297

Picrylsulfonic acid solution

5 % (w/v) in H₂O, BioReagent, suitable for determination of primary amines

[Consulter le prix et la disponibilité](#)

Évaluations

[Rédiger une évaluation](#)

Description sommaire de la notation

Sélectionnez une ligne ci-dessous pour filtrer les avis.

5 ★		1
4 ★		0
3 ★		0
2 ★		0
1 ★		0

Notes moyennes des clients

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★★★★★ 5.0 | 1 avis



1
avis

0
questions

0
réponses

Questions

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