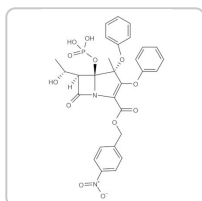


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Documents



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SRE0047 ▶ **Sigma-Aldrich®**

Proteinase K from *Tritirachium album*

★★★★★ (0)

Suitable for manufacturing of diagnostic kits and reagents, lyophilized powder, ≥30 units/mg protein, for molecular biology

Synonyme(s):

Endopeptidase K

 Numéro CAS: **39450-01-6**

 Numéro de classification
(Commission des enzymes):

3.4.21.64 (BRENDA, IUBMB)

 Numéro EC: **254-457-8**

Numéro MDL:

MFCD00132129

NACRES: NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
SRE0047-100MG	100 MG	Only 5 left in stock (more on the way)	Détails... 186,00 €	− +
SRE0047-500MG	500 MG	Disponible pour expédition le 10 octobre 2022	Détails... 818,00 €	− +
SRE0047-1G	1 G	Disponible pour expédition le 10 octobre 2022	Détails... 1 530,00 €	− +

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PRODUITS RECOMMANDÉS



Sigma-Aldrich

P2308

Proteinase K from *Tritirachium album*

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

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Millipore

70663

Proteinase K, Lyophilized

Highly active serine protease that exhibits broad cleavage specificity on native and denatured proteins...

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique fungus (*Tritirachium album*)

Niveau de qualité 400

Qualité for molecular biology

Forme lyophilized powder

specific activity ≥ 30 units/mg protein

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application(s)	diagnostic assay manufacturing
Activité étrangère	DNAse, Nickase and RNAse, none detected
Expédié(e)(s) dans	wet ice
Temp. de stockage	-20°C

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DESCRIPTION

Description générale

Proteinase K is an extracellular endopeptidase. It is synthesized by the mold *Tritirachium album* Limber. Proteinase K belongs to a new subfamily of the subtilisins. It is a 277 amino acid protein with a molecular weight of 28,930 Da. Active proteinase K is characterized with an unhydrolysed protein chain and autolysed polypeptide chains.

Application

Proteinase K catalyzes the hydrolysis of keratin.

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

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Actions biochimiques/physiologiques

Proteinase K catalyzes the hydrolysis of keratin.

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).

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS08

Mention d'avertissement

Danger

Mentions de danger

H315 - H319 - H334

Conseils de prudence

P261 - P264 - P280 - P302 +
P352 - P304 + P340 + P312 -
P305 + P351 + P338

Classification des risques

Eye Irrit. 2 - Resp. Sens. 1 -
Skin Irrit. 2

Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 1

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Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat d'origine

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Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

Rechercher

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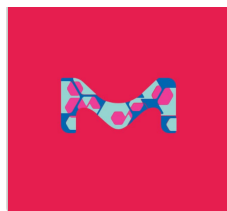
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1.24568

Proteinase K

(from *Tritirachium album*) chromatographically purified lyophilized 30 mAnson-U/mg for biochemistry and...

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Sigma-Aldrich

P9290

Proteinase K-Agarose from *Tritirachium album*
lyophilized powder

[Consulter le prix et la disponibilité](#)



ARTICLES REVUS PAR DES PAIRS

Proteinase K from *Tritirachium album* Limber

Ebeling W, et al.

FEBS Journal, 47(1), 91-97 (1974)

Isolation of High Molecular Weight DNA from the Model Beetle *Tribolium* for Nanopore Sequencing.

Marin Volarić et al.

Genes, 12(8) (2021-08-28)

The long-read Nanopore sequencing has been recently applied for assembly of complex genomes and analysis of linear genome organization. The most critical factor for successful long-read sequencing is extraction of high molecular weight (HMW) DNA of sufficient purity and quantity.

Amino acid sequence of proteinase K from the mold *Tritirachium album* Limber: Proteinase K ? a subtilisin-related enzyme with disulfide bonds.

Jany KD, et al.

Febs Letters, 199(2), 139-144 (1986)

Proteinase K from *Tritirachium album* Limber.

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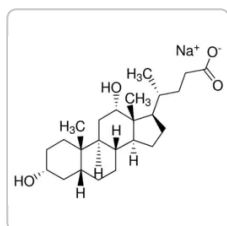
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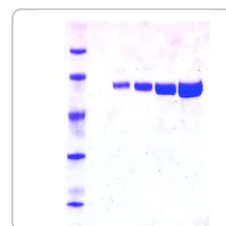
Sigma-Aldrich

SRE0046

Sodium deoxycholate

Suitable for manufacturing of diagnostic kits and reagents

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Sigma-Aldrich

SRE0045

Luciferase from *Photinus pyralis* (firefly)

recombinant, expressed in *E. coli*, lyophilized powder, $\geq 10 \times 10^{10}$ units/mg protein

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Évaluations



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