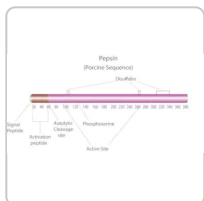


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (3)

Documents

FDS

COO/COA

 Fiche des
caractéristiques

Plus de
documents »

P7125 ► Sigma-Aldrich.

Pepsin from porcine gastric mucosa

★★★★★ (0)

powder, ≥400 units/mg protein

Synonyme(s):

Pepsin A, Pepsin from hog stomach

Numéro CAS: 9001-75-6

Numéro EC: 232-629-3

eCl@ss: 42010127

Numéro de classification
(Commission des enzymes):

3.4.23.1 (BRENDA, IUBMB)

Numéro MDL:

MFCD00081840

NACRES:

NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
P7125-100G	100 G	Only 4 left in stock (more on the way) Les fabricants de produits de diagnostic devraient utiliser un produit d'une autre qualité : SRE0001	115,00 €	- +
P7125-500G	500 G	Only 1 left in stock (more on the way)	442,00 €	- +

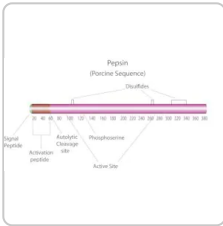
Détails...

Détails...

Demander une commande en gros

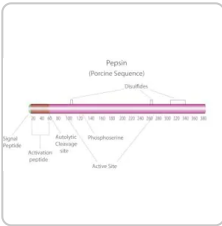
Ajouter au panier

PRODUITS RECOMMANDÉS



Sigma-Aldrich
P7000
Pepsin from porcine gastric mucosa
powder, ≥250 units/mg solid

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich
P7012
Pepsin from porcine gastric mucosa
lyophilized powder, ≥2,500 units/mg protein (E1%/280)

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique	Porcine gastric mucosa
Niveau de qualité	200
Forme	powder
specific activity	≥400 units/mg protein
Poids mol.	35 kDa
Solubilité	10 mM HCl: soluble 1.0 mg/mL, clear to faintly turbid, colorless
N° d'accession UniProt	P00791
Temp. de stockage	2-8°C

Gene Informationpig ... [LOC396892\(396892\)](#)

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

Catégories apparentées

[Proteases](#)

DESCRIPTION

Application

Pepsin is a peptidase used to digest proteins and is commonly used in the preparation of Fab fragments from antibodies. Pepsin, from porcine gastric mucosa, has been used to hydrolyze dry cervical samples in mice. Product P7125 is provided in powder form. Product P7125 has been used to denature DNA from kidney cells and to digest pathology samples from anal canal carcinomas (ACC) biopsies prior to EGFR staining.

The enzyme from Sigma has been used to obtain total vitamin B12 content in food products prior using immunoaffinity columns. It has also been used to digest minced soft tissue of snails prior to the isolation of the third stage larvae (L3).

Pepsin cleavage can be used to produce F(ab')₂ fragments of antibodies. [pepsin](#) at www.sigma-aldrich.com/enzymeexplorer.

Conditionnement

100, 500 g in poly bottle

Actions biochimiques/physiologiques

It does not cleave at valine, alanine, or glycine linkages. Z-L-tyrosyl-L-phenylalanine, Z-L-glutamyl-L-tyrosine, or Z-L-methionyl-L-tyrosine may be used as substrates for pepsin digestion. Pepsin is inhibited by several phenylalanine-containing peptides.

Pepsin hydrolyzes peptide bonds, not amide or ester linkages. Pepsin cleaves peptides with an aromatic acid on either side of the peptide bond. Sulfur-containing amino acids increase susceptibility to hydrolysis when they are close to the peptide bond. Pepsin preferentially cleaves at the carboxyl side of phenylalanine and leucine and at the carboxyl side of glutamic acid residues. Cleaves Phe-Val, Gln-His, Glu-Ala, Ala-Leu, Leu-Tyr, Tyr-Leu, Gly-Phe, Phe-Phe and Phe-Tyr bonds in the β chain of insulin

Pepsin is the major proteolytic enzyme produced in the stomach. It digests proteins through the cleavage of interior peptide linkages.

Preferential cleavage: hydrophobic and aromatic residues in P1 and P1' positions. Cleaves Phe-Val, Gln-His, Glu-Ala, Ala-Leu, Leu-Tyr, Tyr-Leu, Gly-Phe, Phe-Phe and Phe-Tyr bonds in the β chain of insulin

Définition de l'unité

One unit will produce a ΔA_{280} of 0.001 per min at pH 2.0 at 37 °C, measured as TCA-soluble products using hemoglobin as substrate. (Final volume = 16 mL. Light path = 1 cm.)

Remarque sur l'analyse

Optimum pH is 2-4. Active in 4 M urea and 3 M guanidine HCl. Stable at 60 °C. Pepsin is irreversibly inactivated at pH 8.0 - 8.5.

Protein determined by E1%/280

Autres remarques

View more information on [pepsin](https://www.sigma-aldrich.com/enzymeexplorer) at www.sigma-aldrich.com/enzymeexplorer.

PRODUITS APPARENTÉS

Inhibiteur

P5318

Pepstatin A, microbial, ≥90% (HPLC)

[View Pricing](#)**P7626**

Phenylmethanesulfonyl fluoride, ≥98.5% (GC)

[View Pricing](#)**INFORMATIONS SUR LA SÉCURITÉ****Pictograms****GHS07,GHS08****Mention d'avertissement**

Danger

Mentions de danger**H315 - H319 - H334 - H335****Conseils de prudence****P261 - P264 - P271 - P280 -
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),
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

Comment saisir un numéro de lot (COO)

Rechercher

Plus De Documents

[Enzyme Explorer](#)

[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

P1750

Pancreatin from porcine pancreas

4 × USP specifications

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

P0609

Pepsin-Agarose from porcine gastric mucosa

lyophilized powder, ≥30 units/mg dry solid

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Low susceptibility of *Achatina fulica* from Brazil to infection with *Angiolytus costaricensis* and *A. cantonensis*.

Erli Neuhauss et al.

Memorias do Instituto Oswaldo Cruz, 102(1), 49-52 (2007-02-13)

Introduction of *Achatina fulica* in Brazil has led to serious concerns about its role as vector for metacercarial dermatitis: *Angiolytus costaricensis* and *A. cantonensis*. Experimental infection with both parasites was performed to evaluate the potential risk for their transmission by

Cooperative effects of photodynamic treatment of cells in microcolonies.

J Dahle et al.

Proceedings of the National Academy of Sciences of the United States of America, 94(5), 1773-1778 (1997-03-04)

Microcolonies of 2-8 Madison-Darby canine kidney cells (MDCK II) and Chinese hamster lung fibroblasts (V79) cells were incubated with the photosensitizer Photofrin and exposed to light, and the resulting number of dead cells per colony was determined. The distribution of

Epidermal growth factor receptor expression in anal canal carcinoma.

Lyly H Lê et al.

American journal of clinical pathology, 124(1), 20-23 (2005-06-01)

Most anal canal carcinomas (ACCs) are squamous cell carcinomas (SCCs). SCCs in other tumor sites strongly express epidermal growth factor receptors (EGFRs), the inhibition of which might result in favorable changes in tumor growth. A review of the published scientific

Enzymes of Molecular Biology

Sweeney, P.J., and Walker, J.M.

Methods in Molecular Biology, 290-291 (1993)

De novo development of proteolytically resistant therapeutic peptides for oral administration.

Xu-Dong Kong et al.

Nature biomedical engineering, 4(5), 560-571 (2020-05-13)

The oral administration of peptide drugs is hampered by their metabolic instability and limited intestinal uptake. Here, we describe a method for the generation of small target-specific peptides (less than 1,600 Da in size) that resist gastrointestinal proteases. By using

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

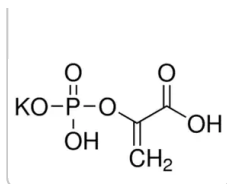
Enzymatic Assay of Pepsin (3.4.23.1)

This procedure may be used for determination of Pepsin activity using hemoglobin as the substrate. It is a spectrophotometric stop rate determination.

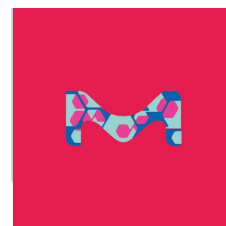
PRODUITS CONSULTÉS RÉCEMMENT

 Sigma-Aldrich

 Sigma-Aldrich

**P7127****Phospho(enol)pyruvic acid monopotassium salt**

≥97% (enzymatic)

[Consulter le prix et la disponibilité](#)**P7059****Phosphate Buffered Saline**

10× PBS for Western blots and IP

[Consulter le prix et la disponibilité](#)

Évaluations

[Soyez le premier à donner votre avis sur ce produit](#)

Questions

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

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