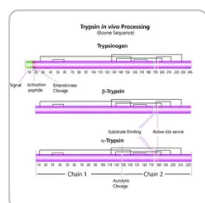


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FDS



COO/COA



Fiche des
caractéristiques

Plus de

documents


T1005 ▶ **Sigma-Aldrich.**

Trypsin from bovine pancreas

★★★★★ (0)

Type XI, lyophilized powder, ≥6,000 BAEE units/mg protein

Synonyme(s):

Serine Protease 1

Numéro CAS: **9002-07-7**

Numéro de classification
(Commission des enzymes):

3.4.21.4 (BRENDA, IUBMB)

Numéro EC: **232-650-8**

Numéro MDL:

MFCD00082094

Référence	Conditionnement	Disponibilité	Prix	Quantité
T1005-250MG	250 MG	Only 6 left in stock (more on the way) Détails...	219,00 €	− +
T1005-500MG	500 MG	Disponible pour expédition le 10 octobre 2022 Détails...	376,00 €	− +
T1005-1G	1 G	Only 1 left in stock (more on the way) Détails...	714,00 €	− +
T1005-5G	5 G	Only 2 left in stock (more on the way) Détails...	1 650,00 €	− +

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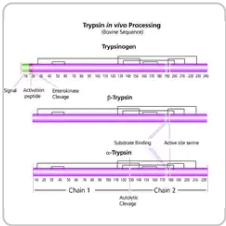
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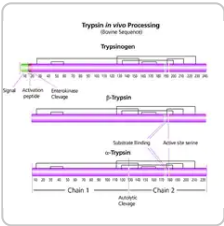


PRODUITS RECOMMANDÉS



Sigma-Aldrich
T8003
Trypsin from bovine pancreas
Type I, ~10,000 BAEE units/mg protein

Consulter le prix et la disponibilité



Sigma-Aldrich
T1426
Trypsin from bovine pancreas
TPCK Treated, essentially salt-free, lyophilized powder,
≥10,000 BAEE units/mg protein

Consulter le prix et la disponibilité

PROPRIÉTÉS

Source biologique	bovine pancreas
Niveau de qualité	200
Type	Type XI
Forme	lyophilized powder
specific activity	≥6,000 BAEE units/mg protein

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Impuretés	salt, essentially free
Solubilité	hydrochloric acid: soluble 1 mM, clear
Activité étrangère	Chymotrypsin ≤ 0.1 BTEE units/mg protein
Temp. de stockage	-20°C

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

Catégories apparentées

Proteases

DESCRIPTION

Application

For trypsin digestion of peptides, use a ratio of about 1:100 to 1:20 for trypsin:peptide. The typical use for this product is in removing adherent cells from a culture surface. The concentration of trypsin necessary to dislodge cells from their substrate is dependent primarily on the cell type and the age of the culture. Trypsins have also been used for the re-suspension of cells during cell culture, in proteomics research for digestion of proteins and in various in-gel digestions. Additional applications include assessing crystallization by membrane-based techniques and in a study to determine that protein folding rates and yields can be limited by the presence of kinetic traps.

Trypsin from bovine pancreas has been used:-

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250, 500 mg in poly bottle

1, 5 g in poly bottle

Actions biochimiques/physiologiques

Trypsin cleaves peptides on the C-terminal side of lysine and arginine residues. The rate of hydrolysis of this reaction is slowed if an acidic residue is on either side of the cleavage site and hydrolysis is stopped if a proline residue is on the carboxyl side of the cleavage site. The optimal pH for trypsin activity is 7-9. Trypsin can also act to cleave ester and amide linkages of synthetic derivatives of amino acids. EDTA is added to trypsin solutions as a chelating agent that neutralizes calcium and magnesium ions that obscure the peptide bonds on which trypsin acts. Removing these ions increases the enzymatic activity.

Serine protease inhibitors, including DFP, TLCK, APMSF, AEBSEF, and aprotinin, amongst others, will inhibit Trypsin.

Composants

Trypsin consists of a single chain polypeptide of 223 amino acid residues, produced by the removal of the N-terminal hexapeptide from trypsinogen which is cleaved at the Lys - Ile peptide bond. The sequence of amino acids is cross-linked by 6 disulfide bridges. This is the native form of trypsin, beta-trypsin. BETA-trypsin can be autolyzed, cleaving at the Lys - Ser residue, to produce alpha-trypsin. Trypsin is a member of the serine protease family.

Attention

Solutions in 1 mM HCl are stable for 1 year in aliquots and stored at -20°C. The presence of Ca^{2+} will also diminish the self-autolysis of trypsin and maintain its stability in solution. Trypsin will also retain most of its activity in 2.0 M urea, 2.0 M guanidine HCl, or 0.1% (w/v) SDS.

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This product is from pancreas sourced from New Zealand. It is soluble in 1 mM HCl at 1 mg/mL.

PRODUITS APPARENTÉS

Inhibiteur**B6506**

Benzamidine hydrochloride hydrate, ≥99%

[View Pricing](#)**T9003**

Trypsin inhibitor from *Glycine max* (soybean), lyophilized powder

[View Pricing](#)**M6159**

α₂-Macroglobulin from human plasma, BioUltra, ≥98% (SDS-PAGE)

[View Pricing](#)**D7910**

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[GET YOURS HERE](#)**D0879**

Diisopropylfluorophosphate

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

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

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

Antipain dihydrochloride from microbial source, protease inhibitor

[View Pricing](#)**T9777**

Trypsin-chymotrypsin inhibitor from *Glycine max* (soybean), lyophilized powder

[View Pricing](#)**A1153**

Aprotinin from bovine lung, lyophilized powder, 3-8 TIU/mg solid

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

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[GET YOURS HERE](#)**A9024**

α 1-Antitrypsin from human plasma, salt-free, lyophilized powder

[View Pricing](#)**A6150**

α 1-Antitrypsin from human plasma, salt-free, lyophilized powder

[View Pricing](#)**T2011**

Trypsin inhibitor from chicken egg white, Type III-O (free of ovoinhibitor)

[View Pricing](#)**Substrat****B3279**

$N\alpha$ -Benzoyl-L-arginine 4-nitroanilide hydrochloride, >98% (TLC)

[View Pricing](#)**H6268**

Hide-Remazol Brilliant Blue R, protease substrate

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N α -Benzoyl-L-arginine ethyl ester hydrochloride, trypsin substrate

[View Pricing](#)**B4750**

N α -Benzoyl-DL-arginine β -naphthylamide hydrochloride, trypsin substrate

[View Pricing](#)**B7632**

N-Benzoyl-Phe-Val-Arg-*p*-nitroanilide hydrochloride, protease substrate

[View Pricing](#)**B4153**

Boc-Gln-Ala-Arg-7-amido-4-methylcoumarin hydrochloride, ~95%

[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 - P302 +
P352 - P304 + P340 + P312 -
P305 + P351 + P338**

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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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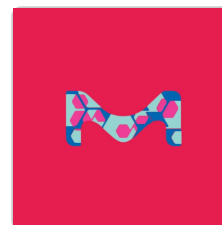
Sigma-Aldrich

T4799

Trypsin from porcine pancreas

lyophilized powder, BioReagent, suitable for cell culture,
1,000-2,000 BAEE units/mg solid

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

6502

Trypsin, Bovine Pancreas

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

[Characterization of an amylase-binding component of Streptococcus gordonii G9B.](#)

F A Scannapieco et al.

Infection and immunity, 60(11), 4726-4733 (1992-11-01)

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T-cell interactions during the *in vitro* cytotoxic allograft responses. II. Soluble products from activated Lyt⁺ T cells trigger autonomously antigen-primed Ly23⁺ T cells to cell proliferation and cytolytic activity.

H Wagner et al.

The Journal of experimental medicine, 148(6), 1523-1538 (1978-12-01)

Secondary murine cytotoxic T lymphocyte responses from alloantigen-primed T cells can be induced *in vitro* by apparently unrelated regimens, such as addition of either concanavalin A (Con A), conditioned medium from Con A stimulated lymphocyte cultures, conditioned medium from secondary

Effects of pepsin and trypsin on the anti-adipogenic action of lactoferrin against pre-adipocytes derived from rat mesenteric fat.

Tomoji Ono et al.

The British journal of nutrition, 105(2), 200-211 (2010-09-22)

Lactoferrin (LF) is a multifunctional glycoprotein in mammalian milk. In a previous report, we showed that enteric-coated bovine LF tablets can decrease visceral fat accumulation, hypothesising that the enteric coating is critical to the functional peptides reaching the visceral fat

Neddylation is required for presynaptic clustering of mGlu7 and maturation of presynaptic terminals.

Minji Kang et al.

Experimental & molecular medicine, 53(3), 457-467 (2021-03-27)

Neddylation is a posttranslational modification in which NEDD8 is conjugated to a target substrate by cellular processes similar to those involved in ubiquitination. Recent studies have identified PSD-95 and cofilin as substrates for neddylation in the brain and have shown

Automated Hypothesis Generation to Identify Signals Relevant in the Development of Mammalian Cell and Tissue Bioprocesses, With Validation in a Retinal Culture System.

Derek Toms et al.

Frontiers in bioengineering and biotechnology, 8, 534-534 (2020-06-26)

We have developed an accessible software tool (receptoR) to predict potentially active signaling pathways in one or more cell type(s) of interest from publicly available transcriptome data. As proof-of-concept, we applied it to mouse photoreceptors, yielding the previously untested hypothesis

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

Procedure for Enzymatic Assay of Trypsin (EC 3.4.21.4)

This procedure is for products with a specification for Trypsin activity using Na-Benzoyl-L-arginine ethyl ester (BAEE) as a substrate. The procedure is a continuous spectrophotometric rate determination (A253, Light path = 1 cm).

PRODUITS CONSULTÉS RÉCEMMENT

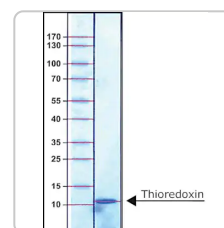


Sigma-Aldrich

T1001

Thyroglobulin from bovine thyroid powder, ≥90% (agarose gel electrophoresis)

Consulter le prix et la disponibilité



Sigma-Aldrich

T0910

Thioredoxin from *Escherichia coli* recombinant, expressed in *E. coli*, essentially salt-free, lyophilized powder, ≥3 units/mg protein

Consulter le prix et la disponibilité



Évaluations

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