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## Documents

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TRYPSEQM-RO Roche

# Trypsin Sequencing Grade, modified

from bovine pancreas

Synonyme(s):

Trypsin

Numéro de classification  
(Commission des enzymes):[3.4.21.4 \(BRENDA, IUBMB\)](#)

| Référence   | Conditionnement | Disponibilité                            | Prix                                | Quantité                                                                                           |
|-------------|-----------------|------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------|
| 11418025001 | 4 X 25 µG       | ✓ Only 2 left in stock (more on the way) | <a href="#">Détails...</a> 166,00 € | <div>— +</div>  |

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

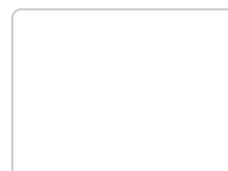
## PRODUITS RECOMMANDÉS



Roche

**TRYPSEQ-RO****Trypsin Sequencing Grade**

from bovine pancreas



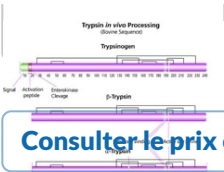
Sigma-Aldrich

**T8658****Trypsin from bovine pancreas**

suitable for protein sequencing, lyophilized powder



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# PROPRIÉTÉS

|                        |                                                                   |
|------------------------|-------------------------------------------------------------------|
| Niveau de qualité      | 100                                                               |
| Forme                  | lyophilized (salt-free)                                           |
| Conditionnement        | pkg of 4 × 100 µg (11418033001)<br>pkg of 4 × 25 µg (11418025001) |
| manufacturer/tradename | Roche                                                             |
| pH optimal             | 8.0                                                               |
| Expédié(e)s dans       | wet ice                                                           |
| Temp. de stockage      | 2-8°C                                                             |

## Catégories apparentées

- Proteases
- Roche® Life Science Products
- Tissue Dissociation

## DESCRIPTION

### Description générale

Trypsin Sequencing Grade, modified, is isolated from bovine pancreas as a highly purified and specific protease, and subsequently modified.

**Inhibitors:** TLCK, DFP, PMSF, leupeptin, soybean trypsin inhibitor, trypsin inhibitor from hen egg, aprotinin,  $\alpha$ 2-macroglobulin,  $\alpha$ 1-antitrypsin, APMSF, and antipain.

### Spécificité

Trypsin is a serine endopeptidase. At pH 7.5–9, it specifically hydrolyzes proteins and peptide bonds C-terminally of lysine and arginine. Amide and ester bonds of Arg and Lys are also cleaved. The specificity of Trypsin Sequencing Grade, modified, is verified with the oxidized B-chain of insulin (insulin B<sub>ox</sub>) as a substrate. High concentrations of Trypsin Sequencing Grade, modified, one part by weight enzyme with 9 parts by weight insulin B<sub>ox</sub>, are incubated for 18 hours to detect traces of chymotrypsin impurities.

### Application

Use Trypsin Sequencing Grade, modified, to generate glycopeptides from purified glycoproteins.

It is used for:

- Protein-structure elucidation
- Tryptic mapping
- Fingerprinting analysis
- Sequence analysis
- Translocation studies
- Protein identification

## Qualité

Purity: Free of impurities that may interfere with the separation of peptides in reversed-phase HPLC.

## Notes préparatoires

**Working concentration:** 1/100 to 1/5 of the protein by weight

**Storage conditions (working solution):** -15 to -25 °C

Trypsin Sequencing Grade, modified, is more resistant to autolysis, even at pH values in the neutral and weakly basic range. The enzyme can be used in high concentrations.

A solution in 1% acetic acid or 1 mM HCl can be used for up to one week when stored at 2 to 8° C. Stored in aliquots at -15 to -25 °C, the solution is stable for at least one year without loss of activity.

## Autres remarques

For life science research only. Not for use in diagnostic procedures.

## INFORMATIONS SUR LA SÉCURITÉ

### Pictograms



GHS07,GHS08

### Mention d'avertissement

Danger

### Mentions de danger

H315 - H319 - H334 - H335

### Conseils de prudence

P261 - P264 - P280 - P284 -  
P304 + P340 + P312 - P342 +  
P311

### 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

## 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**

### Fiche D'informations Produit

**Product Information Sheet - TRYPSEQMRO**

### Plus De Documents

## Enzyme Explorer

### FDS

## LES CLIENTS ONT ÉGALEMENT CONSULTÉ



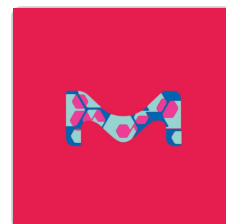
Roche

### ENDOARGS-RO

Endoproteinase Asp-N Sequencing Grade

from *Pseudomonas fragi*

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Sigma-Aldrich

### EMS0007

Recombinant Trypsin Dimethylated

Proteomics Grade, lyophilized powder, recombinant, expressed in *Pichia pastoris*

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## ARTICLES REVUS PAR DES PAIRS

### Comprehensive analysis of protein digestion using six trypsins reveals the origin of trypsin as a significant source of variability in proteomics.

Scott J Walmsley et al.

*Journal of proteome research*, 12(12), 5666-5680 (2013-10-15)

Trypsin is an endoprotease commonly used for sample preparation in proteomics experiments. Importantly, protein digestion is dependent on multiple factors, including the trypsin origin and digestion conditions. In-depth characterization of trypsin activity could lead to improved reliability of peptide detection

### Comparative proteomics of *Thellungiella halophila* leaves from plants subjected to salinity reveals the importance of chloroplastic starch and soluble sugars in halophyte salt tolerance.

Xuchu Wang et al.

*Molecular & cellular proteomics : MCP*, 12(8), 2174-2195 (2013-05-11)

Thellungiella halophila, a close relative of Arabidopsis, is a model halophyte used to study plant salt tolerance. The proteomic/physiological/transcriptomic analyses of Thellungiella plant leaves subjected to different salinity levels, reported herein, indicate an extraordinary ability of Thellungiella to adapt to

### Differential protein expression in honeybee (*Apis mellifera* L.) larvae: underlying caste differentiation.

Jianke Li et al.

*PloS one*, 5(10), e13455-e13455 (2010-10-27)

Honeybee (*Apis mellifera*) exhibits divisions in both morphology and reproduction. The queen is larger in size and fully developed sexually, while the worker bees are smaller in size and nearly infertile. To better understand the specific time and underlying molecular

### Mitochondrial proteins differential expression during honeybee (*Apis mellifera* L.) queen and worker larvae caste determination.

Desalegn Begna et al.

*Journal of proteome research*, 10(9), 4263-4280 (2011-07-15)

Despite their similar genetic makeup, honeybee (*A. mellifera*) queens and workers show alternative morphologies driven by nutritional difference during the larval stage. Although much research have been done to investigate the causes of honeybee caste polymorphism, information at subcellular protein

## PRODUITS CONSULTÉS RÉCEMMENT



Roche

**11417991001**

**SuRE/Cut™ Buffer H**

solution, pkg of 5 × 1 mL

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Roche

**11417959001**

**SuRE/Cut™ Buffer A**

pH 8.1-8.3 (37 °C), suitable for molecular cloning

[Consulter le prix et la disponibilité](#)

## SERVICE TECHNIQUE

Notre équipe de scientifiques dispose d'une expérience dans tous les secteurs de la recherche, notamment en sciences de la vie, science des matériaux, synthèse chimique, chromatographie, analyse et dans de nombreux autres domaines..

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