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COLLD-RO Roche

Collagenase D

from *Clostridium histolyticum*

Synonyme(s):
collagenase

Numéro de classification
(Commission des enzymes): **3.4.24.3 (BRENDA, IUBMB)**

Référence	Conditionnement	Disponibilité	Prix	Quantité
11088858001	100 MG	✓ Date d'expédition estimée le 03 octobre 2022 Détails...	84,50 €	- + i
11088866001	500 MG	✓ Date d'expédition estimée le 03 octobre 2022 Détails...	313,00 €	- + i
11088882001	2.5 G	✓ Date d'expédition estimée le 03 octobre 2022 Détails...	890,00 €	- + i

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PRODUITS RECOMMANDÉS



Roche
10104159001
DNase I
grade II, from bovine pancreas

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Roche
COLLA-RO
Collagenase A
from *Clostridium histolyticum*

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Niveau de qualité	100
Stérilité	non-sterile
Forme	lyophilized
Conditionnement	pkg of 100 mg (11088858001) pkg of 2.5 g (11088882001) pkg of 500 mg (11088866001)
manufacturer/tradename	Roche
Concentration	(working concentration: 0.5 - 2.5 mg/ml)
pH optimal	6.0-8.0
Expédié(e)s dans	wet ice
Temp. de stockage	2-8°C

Catégories apparentées

Roche® Life Science Products

Tissue Dissociation

DESCRIPTION

Description générale

Collagenase D is prepared from *Clostridium histolyticum* cultures by filtration, ammonium sulfate precipitation, dialysis, and lyophilization.

Spécificité

Collagenase degrades native collagen. Clostripain, trypsin-like enzymes, and neutral proteases degrade other proteins as well.

Application

Collagenase from *C. histolyticum* is widely used for the disaggregation of many types of tissues (e.g., lung, heart, muscle, bone, adipose tissue, liver, kidney, cartilage, mammary gland, placentae, blood vessels, brain, tumors) and for the preparation of single cell suspensions for the establishment of primary cell culture systems. Collagenase D is recommended when functionality and integrity of cell-surface proteins are important.

Clostridium collagenase from Roche has been used to prepare cells from many types of tissue, such as hepatocytes, adipocytes, pancreatic islets, epithelial cells, muscle cells, endothelial cells, etc. However, suitability of each lot of the enzyme for disruption of a particular tissue should be determined empirically.

Caractéristiques et avantages

Contents

Lyophilizate, nonsterile

Définition de l'unité

Collagenase from Roche is assayed in $W\ddot{A}$ nsch units (1 μ mol of product formed per minute at +25 °C with $W\ddot{A}$ nsch substrate).

Frequently, collagenase activities are given in Mandl units (1 μ mol leucine liberated from collagen in 5 hours at +37 °C).

Unfortunately, there is no consistent conversion factor between the two units of activity, since the Mandl unit depends, in part, on the concentration of contaminating proteases in the collagenase preparation, an indefinable variable. A purer collagenase preparation would actually give a lower specific activity in Mandl units than a crude preparation. *Clostridium* preparations typically give conversion factors of approximately 1:1800 (e.g., a particular lot of *Clostridium* collagenase contained approximately 0.15 $W\ddot{A}$ nsch U/mg and 250 Mandl U/mg).

Forme physique

Lyophilizate, nonsterile.

Notes préparatoires

Activator: Ca^{2+}

Working concentration: 0.5 - 2.5mg/ml

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

Roche recommends reconstituting only the amount of lyophilizate needed for immediate use. The reconstituted solution can be stored at -15 to -25°C for up to one week. Avoid repeated freezing and thawing since activity decreases after reconstitution.

Inhibitors:

Collagenase inhibitors: EDTA, EGTA, Cys, His, DTT, 2-mercaptoethanol

Collagenase is not inhibited by serum.

Clostripain inhibitors: TLCK

Trypsin inhibitors: aprotinin, trypsin inhibitor (egg white, soybean)

Enzyme activity:

Collagenase activity: >0.15 U/mg (according to Wünsch) (+25°C, 4-phenyl-azobenzyl-oxycarbonyl-Pro-Leu-Gly-Pro-D-Arg as the substrate)

Contaminating enzyme activities: trypsin, clostripain, and total proteolytic activity

Collagenase D has a normal to high collagenase activity and very low tryptic activity (usually <0.2 units/mg, BAEE as substrate).

Reconstitution

Reconstitution in any balanced salt solution (*e.g.*, HBSS)

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)

does not flash

Point d'éclair C

does not flash

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

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

Comment saisir un numéro de lot (COO)

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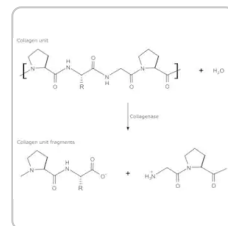
[FDS](#)

LES CLIENTS ONT ÉGALEMENT CONSULTÉ

USP

1148089**Collagenase I**

United States Pharmacopeia (USP) Reference Standard

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Sigma-Aldrich

C2139**Collagenase from *Clostridium histolyticum***

suitable for release of physiologically active rat epididymal adipocytes and hepatocytes, Type VIII, 0.5-...

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ARTICLES REVUS PAR DES PAIRS

Isolation of Infiltrating Leukocytes from Mouse Skin Using Enzymatic Digest and Gradient Separation.

Charles J Benck et al.*Journal of visualized experiments : JoVE*, (107)(107), e53638-e53638 (2016-02-11)

Dissociating murine skin into a single cell suspension is essential for downstream cellular analysis such as the characterization of infiltrating immune cells in rodent models of skin inflammation. Here, we describe a protocol for the digestion of mouse skin in

Low intraprostatic DHT promotes the infiltration of CD8+ T cells in BPH tissues via modulation of CCL5 secretion.

Yu Fan et al.*Mediators of inflammation*, 2014, 397815-397815 (2014-05-09)

Clinical studies suggested that androgen might be associated with infiltrating T cells in prostate of benign prostatic hyperplasia (BPH) patients, but detail of T-cell subset and mechanism still remained unclear. The present study tested the hypothesis that intraprostatic 5 α - dihydrotestosterone

Functional xenobiotic metabolism and efflux transporters in trout hepatocyte spheroid cultures.

Chibuzor Uchea et al.*Toxicology research*, 4(2), 494-507 (2015-04-22)

Prediction of xenobiotic fate in fish is important for the regulatory assessment of chemicals under current legislation. Trout hepatocyte spheroids are a promising

CD16/32-specific biotinylated 2.4G2 single-chain Fv complexed with avidin-FITC enhances FITC-specific humoral immune response in vivo in a CD16-dependent manner.

Adrienn Angyal et al.

International immunology, 22(2), 71-80 (2009-12-03)

Fcgamma receptors (FcgammaRs) play an essential role in the regulation of immune response due to their ability to bind immune complexes. Activating FcgammaRs may facilitate antigen presentation and dendritic-cell maturation, while in the late phase of the immune response, the

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Tissue Dissociation Enzymes: Collagenase, Dispase, and Liberase

Enzyme Explorer Key Resource: Collagenase Guide. Collagenases, enzymes that break down the native collagen that holds animal tissues together, are made by a variety of microorganisms and by many different animal cells.

Contenu apparenté

Tissue Dissociation Guide: Collagenase, Dispase, and Liberase Enzyme Types

Collagenase Guide. Collagenases, enzymes that break down the native collagen that holds animal tissues together, are made by a variety of microorganisms and by many different animal cells.

PRODUITS CONSULTÉS RÉCEMMENT



Roche

COLLB-RO**Collagenase B**from *Clostridium histolyticum*[Consulter le prix et la disponibilité](#)

Roche

COLLA-RO**Collagenase A**from *Clostridium histolyticum*[Consulter le prix et la disponibilité](#)

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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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