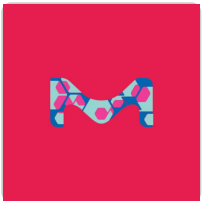


Saisir le nom du produit, le numéro de lot, etc.





Toutes les
photos (1)

Documents

-  [FDS](#)
-  [COA/CoQ](#)

08-115 

Collagen Type I, rat tail

★★★★★ (0)

eCl@ss:32160405

NACRES:NA.75

Référence	Conditionnement	Disponibilité	Prix	Quantité
08-115	100 MG	 Date d'expédition estimée le 05 octobre 2022	304,00 €	- + 

[Demander une commande en gros](#)

Ajouter au panier

PRODUITS RECOMMANDÉS



Sigma-Aldrich

C3867

Collagen, Type I solution from rat tail

BioReagent, suitable for cell culture, sterile-filtered



Sigma-Aldrich

C7661

Collagen from rat tail

Bornstein and Traub Type I, powder, BioReagent, suitable for cell culture

Consulter le prix et la disponibilité

Consulter le prix et la disponibilité

PROPRIÉTÉS

Source biologique	rat
Niveau de qualité	100
Forme	liquid
manufacturer/tradename	Upstate®
technique(s)	cell culture mammalian: suitable
input	sample type induced pluripotent stem cell(s) sample type mesenchymal stem cell(s) sample type epithelial cells sample type: mouse embryonic stem cell(s) sample type hematopoietic stem cell(s) sample type neural stem cell(s) sample type pancreatic stem cell(s)
N° d'accession NCBI	NM_000088.3
N° d'accession UniProt	P02452
Expédié(e)s dans	wet ice
Temp. de stockage	2-8°C

Catégories apparentées

[Attachment Factors](#)

DESCRIPTION

Description générale

In humans, type I collagen is the most abundant and broadly expressed collagen. This heterotrimer contains two alpha 1 (I) chains and one alpha 2 (I) chain. Collagen type I α 1 (COL1A1), a major component of collagen type I, codes for pro- α 1 chains of type I collagen. It has repeating Gly-Xaa-Yaa tri-peptides motifs. The collagen alpha-1(I) chain protein is a member of the collagen complex superfamily. COL1A1 has a von Willebrand factor type C (vWFC) domain, a collagen triple-helix repeat, and a fibrillar collagen C-terminal domain (COLF).

Application

Collagen Type I, rat tail has been used:

- for collagen 3D proliferation assays
- for atelocollagen proliferation assays
- in a comparative study to make microcapsules for templating on mesoporous cores of pure vaterite calcium carbonate (CaCO₃) crystals to evaluate the structure-property relationship
- in coverslip coating to grow the human cerebral microvascular endothelial cell line (hCMEC/D3) for creating a cell coculture and chronic subdural hematoma (CSDH) patient hematoma sample induced injury model

Actions biochimiques/physiologiques

Collagen type I α 1 (COL1A1) plays a key role in chemoresistance and may act as a therapeutic target. It is involved in carboplatin-resistant ovarian cancer (OV). COL1A1 serves as an oncogene in the development of colorectal cancer (CRC). Dominant inherited COL1A1 gene mutations result in connective tissue disorders such as osteogenesis imperfecta (OI).

Qualité

Routinely evaluated by testing for uniform gelation and for attachment of and spreading of PC-12 rat cells

Forme physique

0.02N acetic acid, pH 3.67

Stockage et stabilité

1 year at 4°C

Informations légales

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Clause de non-responsabilité

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de

WGK

Flash Point(F)

Point d'éclair C

stockage

WGK 1

Not applicable

Not applicable

12 - Non Combustible Liquids

DOCUMENTATION

Certificat d'analyse

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

Référence

e.g. T1503

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)

Rechercher

Certificat de qualité

Saisir un numéro de lot pour rechercher un certificat de qualité (CoQ).

Référence

e.g. T1503

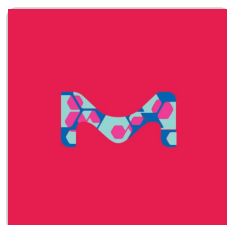
Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (CoQ)

[Rechercher](#)

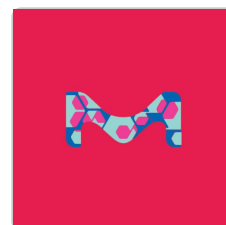
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

234149

Collagen, Type I, Human Placenta

[Consulter le prix et la disponibilité](#)

Sigma-Aldrich

C4243

Collagen solution from bovine skin

BioReagent, suitable for cell culture, sterile-filtered

[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Requirement of receptor-bound urokinase-type plasminogen activator for integrin alphavbeta5-directed cell migration.

M Yebra et al.*The Journal of biological chemistry*, 271(46), 29393-29399 (1996-11-15)

The urokinase plasminogen activator (uPA) interacts with its cell surface receptor (uPAR), providing an inducible, localized cell surface proteolytic activity, thereby promoting cellular invasion. Evidence is provided for a novel function of cell surface-associated uPA.uPAR. Specifically, induction of cell surface

Combinatorial microenvironmental regulation of liver progenitor differentiation by Notch ligands, TGF β , and extracellular matrix.

Kerim B Kaylan et al.*Scientific reports*, 6, 23490-23490 (2016-03-31)

The bipotential differentiation of liver progenitor cells underlies liver development and bile duct formation as well as liver regeneration and disease. TGF β and Notch signaling are known to play important roles in the liver progenitor specification process and tissue morphogenesis.

Leptin promotes invasiveness of kidney and colonic epithelial cells via phosphoinositide 3-kinase-, rho-, and rac-dependent signaling pathways.

S Attoub et al.

FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 14(14), 2329-2338 (2000-10-29)

Leptin plays a key role regulating food intake, body weight and fat mass. These critical parameters are associated with an increased risk for digestive and mammary gland cancer in the Western population. Here we determined whether leptin contributes to the

Notch4 and Wnt-1 proteins function to regulate branching morphogenesis of mammary epithelial cells in an opposing fashion.

H Uyttendaele et al.

Developmental biology, 196(2), 204-217 (1998-05-13)

Elongation and branching of epithelial ducts is a crucial event during the development of the mammary gland. Branching morphogenesis of the mouse mammary epithelial TAC-2 cell line was used as an assay to examine the role of Wnt, HGF, TGF-beta

Chronic stretch of engineered heart tissue induces hypertrophy and functional improvement.

C Fink et al.

FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 14(5), 669-679 (2000-04-01)

To examine the influence of chronic mechanical stretch on functional behavior of cardiac myocytes, we reconstituted embryonic chick or neonatal rat cardiac myocytes to a 3-dimensional engineered heart tissue (EHT) by mixing freshly isolated cells with neutralized collagen I and

Afficher tous les articles scientifiques apparentés

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

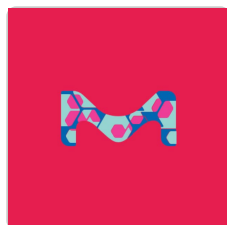
Generating organotypic 3D skin cultures as an in-vitro model of the human epidermis

3D cell culture protocol for generating epidermal human skin tissue using primary human keratinocytes, dermal fibroblasts, and collagen-coated transwell inserts.

ECM Coating Protocols for Millicell®

This page covers the ECM coating protocols developed for four types of ECMs on Millicell®-CM inserts, Collagen Type 1, Fibronectin, Laminin, and Matrigel.

PRODUITS CONSULTÉS RÉCEMMENT

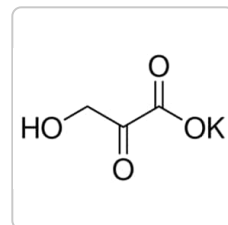


Sigma-Aldrich

08-110

ECL Cell Attachment Matrix

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

08075

Potassium β -hydroxypyruvate

≥95.0% (NT)

[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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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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