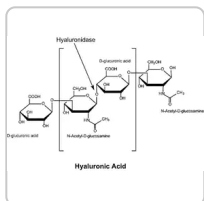


Saisir le nom du produit, le numéro de lot, etc.



Toutes les
photos (1)

Documents

↓ FDS

🔍 COO/COA

📄 Fiche des
caractéristiques

Plus de
documents »

H1136 ▶ **Sigma-Aldrich.**

Hyaluronidase from *Streptomyces hyalurolyticus*

★★★★★ (0)

Synonyme(s):

Hyaluronate Lyase from *Streptomyces hyalurolyticus*

Numéro CAS: **37259-53-3**

Numéro de classification
(Commission des enzymes): **4.2.2.1 (BRENDA, IUBMB)**

Numéro EC: **253-430-8**

Numéro MDL: **MFCD00131347**

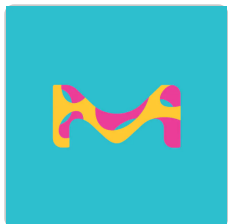
NACRES: NA.54

Référence	Conditionnement	Disponibilité		Prix	Quantité
H1136-1AMP	1 AMP	✓ Date d'expédition estimée le 10 octobre 2022	Détails...	210,00 €	− +
H1136-5X1AMP	5 X 1 AMPOULES	✓ Date d'expédition estimée le 10 octobre 2022	Détails...	779,00 €	− +

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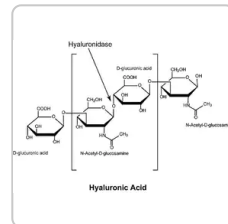
PRODUITS RECOMMANDÉS



H1115000

Hyaluronidase

European Pharmacopoeia (EP) Reference Standard



Sigma-Aldrich

H3506

Hyaluronidase from bovine testes

Type I-S, lyophilized powder, 400-1000 units/mg solid

[Consulter le prix et la disponibilité](#)

[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Source biologique *Streptomyces* sp. (*S. hyalurolyticus*)

Niveau de qualité 200

Forme film (Clear)

Conditionnement ampule of 300 × units

Temp. de stockage -20°C

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

DESCRIPTION

Description générale

Hyaluronidase is widely present in nature. In humans, it is present in a number of organs and body fluids. Hyaluronidase is found in the secretions of virus, bacteriophage, fungi and bacteria. It is also present in nematode and leeches secretions. Snakes and scorpions produce hyaluronidase in their venom. Hyaluronidase is also secreted by bees, spiders, wasps, hornets, caterpillars, fishes and lizards.

Application

Hyaluronidase from *Streptomyces hyalurolyticus* has been used:

- in the preparation of DMEM/F-12 (Dulbecco's modified eagle medium/nutrient mixture F-12) media for the isolation and purification of single cells from dissociated tumour tissue
- as a component of digestion solution for the derivation of germline stem cells from testicular tissue

Actions biochimiques/physiologiques

Hyaluronate lyase cleaves hyaluronic acid at the β -D-GlcNAc-(1 $\rightarrow$ 4)- β -D-GlcA bond, yielding 3-(4-deoxy- β -D-gluc-4-enuronosyl)-N-acetyl-D-glucosamine tetra- and hexasaccharides. Unlike other hyaluronidases, this enzyme is specific for hyaluronic acid and is inactive with chondroitin and chondroitin sulfate.

Hyaluronidase is an endoglycosidase and performs its function along with exoglycosidases, like β -glucuronidase and β -N-acetyl glucosaminidase. Hyaluronidase regulates the hyaluronic acid turnover.

Définition de l'unité

One unit will cause a change in % transmittance at 600 nm of 0.330 per minute at pH 5.35 at 37 °C in a 2.0 mL reaction mixture (45 minute assay).

Autres remarques

View more information on [enzymes for complex carbohydrate analysis](https://www.sigma-aldrich.com/enzymeexplorer) at www.sigma-aldrich.com/enzymeexplorer

INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage 13 - Non Combustible Solids	WGK WGK 3	Flash Point(F) Not applicable	Point d'éclair C Not applicable
Équipement de protection individuelle Eyeshields, Gloves, type N95 (US)			

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)

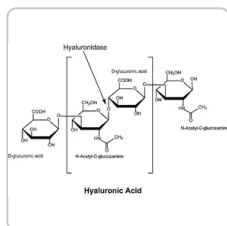
Rechercher

Plus De Documents

Enzyme Explorer

FDS

LES CLIENTS ONT ÉGALEMENT CONSULTÉ



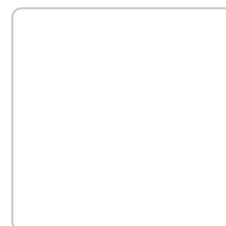
Sigma-Aldrich

H2126

Hyaluronidase from sheep testes

Type II, lyophilized powder, ≥300 units/mg solid

Consulter le prix et la disponibilité



Sigma-Aldrich

H8891

Heparinase III from *Flavobacterium heparinum*

Lyophilized powder stabilized with approx. 25% (w/w) bovine serum albumin, ≥30 units/mg protein (enzyme +...)

Consulter le prix et la disponibilité

QUESTIONS FRÉQUEMMENT POSÉES (FAQ)

Which document(s) contains shelf-life or expiration date information for a given product?

If available for a given product, the recommended re-test date or the expiration date can be found on the Certificate of Analysis.

How do I get lot-specific information or a Certificate of Analysis?

The lot specific COA document can be found by entering the lot number above under the "Documents" section.

How should Product H1136, Hyaluronidase, be reconstituted?

Prior to determining the activity of this enzyme, we reconstitute it in 20 mM sodium phosphate buffer, with 77 mM sodium chloride, 0.01% BSA, pH 7.0.

What amount of product is present in the vial of Product H1136, Hyaluronidase?

The dry weight of the product is not determined. The vial should contain a minimum of 300 units of enzyme.

What is the molecular weight of Product H1136, Hyaluronidase?

The molecular weight for hyaluronidase from *Streptomyces hyalurolyticus* has been reported to be 91,000 DALTONS as determined by gel filtration.

Are any other components present in Product H1136, Hyaluronidase, besides the enzyme?

No protein or BSA has been added as a stabilizer. The enzyme was lyophilized from 0.5 mM Tris buffer, pH 7.0.

How is the activity of Product H1136, Hyaluronidase, determined?

Sigma assays the enzyme against a USP hyaluronidase reference standard as described in USP XXII-NF XVII, 644 (1990).

How do I find price and availability?

There are several ways to find pricing and availability for our products. Once you log onto our website, you will find the price and availability displayed on the product detail page. You can contact any of our Customer Sales and Service offices to receive a quote. USA customers: 1-800-325-3010 or view [local office numbers](#).

What is the Department of Transportation shipping information for this product?

Transportation information can be found in Section 14 of the product's (M)SDS. To access the shipping information for this material, use the link on the product detail page for the product.

My question is not addressed here, how can I contact Technical Service for assistance?

Ask a Scientist [here](#).

I can't see any material in the container. Is material present in the container?

The product is lyophilized directly into the ampule and its appearance is a clear, thin film.

ARTICLES REVUS PAR DES PAIRS

CD44v8-10 is a cancer-specific marker for gastric cancer stem cells

Lau WM, et al.

Cancer Research, canres-ca2309 (2014)

Binding of trastuzumab to ErbB2 is inhibited by a high pericellular density of hyaluronan.

Tímea Váradi et al.

The journal of histochemistry and cytochemistry : official journal of the Histochemistry Society, 60(8), 567-575 (2012-05-09)

Although trastuzumab is an efficient drug, primary and acquired resistance is a challenging problem. The authors have previously shown in mouse xenograft experiments that masking ErbB2 by hyaluronan leads to diminished binding of the antibody and consequent resistance. In the

Crystal structure of hyaluronidase, a major allergen of bee venom

Markovic H, et al.

Structure, 8(10), 1025-1035 (2000)

CD44v8-10 is a cancer-specific marker for gastric cancer stem cells.

Wen Min Lau et al.

Cancer research, 74(9), 2630-2641 (2014-03-13)

The surface marker CD44 has been identified as one of several markers associated with cancer stem cells (CSC) in solid tumors, but its ubiquitous expression in many cell types, including hematopoietic cells, has hindered its use in targeting CSCs. In

Interleukin-10-mediated regenerative postnatal tissue repair is dependent on regulation of hyaluronan metabolism

Swathi Balaji et al.

FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 31(3), 868-881 (2016-12-03)

The cytokine IL-10 has potent antifibrotic effects in models of adult fibrosis, but the mechanisms of action are unclear. Here, we report a novel finding that IL-10 triggers a signal transducer and activator of transcription 3 (STAT3)-dependent signaling pathway that

[Afficher tous les articles scientifiques apparentés](#)

PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Carbohydrate Analysis III

A key resource feature at our Enzyme Explorer section of biochemicals is "Enzymes for Carbohydrate Analysis and Digestion." Offering kits, reagents, analysis, lists of enzymes related to PTM and carbohydrate metabolism.

Glycosaminoglycan Sulfation and Signaling

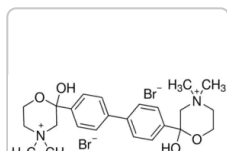
Glycosaminoglycans are large linear polysaccharides constructed of repeating disaccharide units.

Protocoles

Enzymatic Assay of Hyaluronidase (3.2.1.35)

This procedure may be used for Hyaluronidase products.

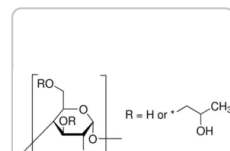
PRODUITS CONSULTÉS RÉCEMMENT



Sigma-Aldrich

H108

Hemicholinium-3



Sigma-Aldrich

H107

(2-Hydroxypropyl)-β-cyclodextrin
powder



rigu Orig

solid, ≥95% (HPLC)

✓ L OH J₇



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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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