

Merck

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Documents

FDS

COO/COA

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11080725001 Roche

Neuraminidase (Sialidase)

from *Vibrio cholerae*

Synonyme(s):
Sialidase

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

Référence	Conditionnement	Disponibilité	Prix	Quantité
11080725001	1 UNIT	Only 1 left in stock (more on the way)	Détails... 144,00 €	- +

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PRODUITS RECOMMANDÉS

Roche

10269611001

Neuraminidase (Sialidase)

from *Arthrobacter ureafaciens*

Sigma-Aldrich

N7885

Neuraminidase from *Vibrio cholerae*

Type III, buffered aqueous solution, 0.2 µm filtered, 1-

https://www.sigmaaldrich.com/FR/fr/product/roche/11080725001

1/9

synthetic substrates such as 2-(4-Methylumbelliferyl)-, 5-Bromo-4-chloro-3-indolyl and 2-(5-p-Methylsulfonyl)-α-D-glucopyranoside

5 units/mg protein (Lowry, using NAN-lactose)



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PROPRIÉTÉS

Niveau de qualité	100
Forme	solution
specific activity	~20 units/mg protein (Approximately 40 U/mg enzyme protein at 37 °C and pH 5.5, with N-acetyl-neuraminosyl-D-lactose as the substrate.)
Poids mol.	~95 kDa
Conditionnement	pkg of 1 U
manufacturer/tradename	Roche
pH optimal	5.5-6.2
Expédié(e)s dans	wet ice
Temp. de stockage	2-8°C

Catégories apparentées

Roche® Life Science Products

DESCRIPTION

Description générale

Neuraminidase is an acylneuraminyl hydrolase which hydrolyzes terminal *N*- or *O*-acylneuraminic acids which are $\alpha 2,3$ -, $\alpha 2,6$ -, or $\alpha 2,8$ -linked (rate: $\alpha 2,6 > \alpha 2,3 > \alpha 2,8$) to oligosaccharides, polysaccharides, mucopolysaccharides, glycoproteins, and glycolipids. Noteworthy, for the hydrolysis of glycolipids, the presence of a detergent is necessary. Because of the broad substrate specificity, the enzyme is very well suited for the complete removal of sialic acids from glycoconjugates of a wide variety of biological materials (e.g., in cytology, on cell surfaces, viruses *etc.*).

Spécificité

Hydrolyzes terminal *N*- or *O*-acyl-neuraminic acids that are $\alpha 2,3$ -, $\alpha 2,6$ -, or $\alpha 2,8$ -linked to galactose, Hex, NAc, or *N*- or *O*-acylated neuraminyl residues in oligosaccharides/glycoconjugates or colominic acid. Relative rate of cleavage is $\alpha 2,3 > \alpha 2,6 > \alpha 2,8$, determined on bonds in tri- and tetrasaccharides.

Application

Neuraminidase has been used:

- to remove *cis*-acting sialic acids in CHO (chinese hamster ovary) cells
- for deglycosylation studies

Définition de l'unité

One unit is the enzyme activity that hydrolyzes 1 μ mol *N*-acetyl-neuraminosyl-D-lactose within 1 min at +37 °C under the following incubation conditions:

10 mM *N*-acetyl-neuraminosyl-D-lactose, 50 mM sodium acetate, 4 mM calcium chloride, bovine serum albumin, 100 μ g/ml, pH 5.5. The activity is determined by measuring the released D-lactose using the β -galactosidase/galactose dehydrogenase method.

Under the same conditions, 1 μmol N-acetylneuraminic acid per min is split off from human acid α_1 -glycoprotein (10 mg/ml incubation mixture) by 1 U neuraminidase. Released N-acetyl-neuraminic acid can be determined using, for example, the thiobarbituric acid method.

Forme physique

Solution in 50 mM sodium acetate, 154 mM sodium chloride, 9 mM calcium chloride, 0.1% Micr-O-Protect (w/v), human serum albumin, 25 mg/l, pH 5.5. The preparation contains 10 mM EDTA.

Note: The serum used for this preparation was tested for HBs antigen and for the presence of antibodies to HIV-1, HIV-2, HCV, and found to be negative, according to the current quality control procedures.

Autres remarques

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

Informations légales

The sale of the Product does not exhaust or grant any rights in third party patents including patents of companies of the F. Hoffmann - La Roche AG group of companies, in particular, for the use of modified antibodies obtained by using the product.

INFORMATIONS SUR LA SÉCURITÉ

Pictograms



GHS07

Mention d'avertissement

Warning

Mentions de danger

H317

Conseils de prudence

P261 - P272 - P280 - P333 +
P313 - P362 + P364 - P501

Classification des risques

Skin Sens. 1

Code de la classe de stockage

WGK

WGK 1

Flash Point(F)

does not flash

12 - Non Combustible Liquids

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

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

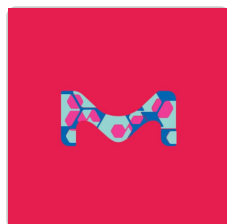
e.g. 023J5431

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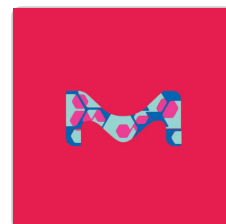
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

N7271 **$\alpha(2\rightarrow3)$ Neuraminidase from *Streptococcus pneumoniae***

buffered aqueous solution

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Sigma-Aldrich

N5521 **$\alpha(2\rightarrow3,6)$ Neuraminidase from *Clostridium perfringens* (*C. welchii*)**recombinant, expressed in *E. coli*, buffered aqueous solution, ≥ 250 units/mg protein[Consulter le prix et la disponibilité](#)

ARTICLES REVUS PAR DES PAIRS

Porcine arterivirus attachment to the macrophage-specific receptor sialoadhesin is dependent on the sialic acid-binding activity of the N-terminal immunoglobulin domain of sialoadhesin.

Peter L Delputte et al.*Journal of virology*, 81(17), 9546-9550 (2007-06-15)

The sialic acid-binding lectin sialoadhesin (Sn) is a macrophage-restricted receptor for porcine reproductive and respiratory syndrome virus (PRRSV). To investigate the importance of pSn sialic acid-binding activity for PRRSV infection, an R(116)-to-E mutation was introduced in the predicted sialic acid-binding

Functional Analysis of Human and Feline Coronavirus Cross-Reactive Antibodies Directed Against the SARS-CoV-2 Fusion Peptide.

Nathalie Vanderheijden et al.*Frontiers in immunology*, 12, 790415-790415 (2022-01-25)

To face the continuous emergence of SARS-CoV-2 variants, broadly protective therapeutic antibodies are highly needed. We here focused on the fusion peptide (FP) region of the viral spike antigen since it is highly conserved among alpha- and betacoronaviruses. First, we

Infection of glial cells by the human polyomavirus JC is mediated by an N-linked glycoprotein containing terminal alpha(2-6)-linked sialic acids.

CK Liu et al.*Journal of virology*, 72(6), 4643-4649 (1998-05-30)

The human JC polyomavirus (JCV) is the etiologic agent of the fatal central nervous system (CNS) demyelinating disease progressive multifocal leukoencephalopathy (PML). PML typically occurs in immunosuppressed patients and is the direct result of JCV infection of oligodendrocytes. The initial

Sialic acid-containing glycolipids mediate binding and viral entry of SARS-CoV-2.

Linh Nguyen et al.*Nature chemical biology*, 18(1), 81-90 (2021-11-11)

Emerging evidence suggests that host glycans influence severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection. Here, we reveal that the receptor-binding domain (RBD) of the spike (S) protein on SARS-CoV-2 recognizes oligosaccharides containing sialic acid (Sia), with preference for monosialylated

Gangliosides are essential endosomal receptors for quasi-enveloped and naked hepatitis A virus.

Anshuman Das et al.*Nature microbiology*, 5(9), 1069-1078 (2020-05-27)

The Picornaviridae are a diverse family of positive-strand RNA viruses that includes numerous human and veterinary pathogens¹. Among these, hepatitis A virus (HAV), a common cause of acute hepatitis in humans, is unique in that it is hepatotropic and is

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

Neuraminidase (Sialidase) Protocol

Neuraminidase can be used to cleave sialic acids from proteins. In this protocol, the enzyme from Vibrio cholerae is used on fixed cells.

PRODUITS CONSULTÉS RÉCEMMENT



Roche
11074547001
Insulin-Transferrin-Sodium Selenite Supplement
suitable for cell culture, lyophilized, pkg of 50 mg (for 5 l medium)

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Roche
11074440001
Penicillin-Streptomycin
suitable for cell culture, lyophilized (clear, colorless solution after reconstitution), non-sterile; 0.2 µm filtere...

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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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