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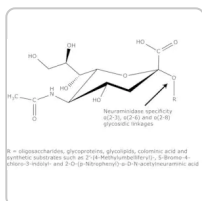
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N3001 ► Sigma-Aldrich.

Neuraminidase from *Clostridium perfringens* (*C. welchii*)

★★★★★ (0)

Type VI, lyophilized powder, 6-15 units/mg protein (using 4MU-NANA), 2-10 units/mg protein (mucin)

Synonyme(s):

Acyl-neuraminyl Hydrolase, Receptor-destroying enzyme, Sialidase

Numéro CAS: **9001-67-6**Numéro de classification
(Commission des enzymes):**3.2.1.18 (BRENDA, IUBMB)**Numéro EC: **232-624-6**

Numéro MDL:

MFCD00131711

NACRES: NA.54

Référence	Conditionnement	Disponibilité	Prix	Quantité
N3001-4UN	4 UNITS	Only 1 left in stock (more on the way) Détails...	251,00 €	– +
N3001-10UN	10 UNITS	Only 1 left in stock (more on the way) Détails...	523,00 €	– +

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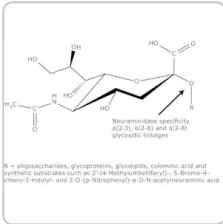
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PRODUITS RECOMMANDÉS

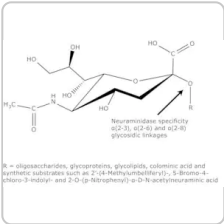


Sigma-Aldrich

N2876

Neuraminidase from *Clostridium perfringens* (*C. welchii*)

Suitable for manufacturing of diagnostic kits and reagents, Type V, lyophilized powder



Sigma-Aldrich

N5631

Neuraminidase from *Clostridium perfringens* (*C. welchii*)

Type VIII, lyophilized powder, 10-20 units/mg protein (using 4MU-NANA), 3.5-8.0 units/mg protein (mucin)

Consulter le prix et la disponibilité

Consulter le prix et la disponibilité

PROPRIÉTÉS

Source biologique	<i>Clostridium perfringens</i> str. 13
Niveau de qualité	200
Type	Type VI
Forme	lyophilized powder
specific activity	2-10 units/mg protein (mucin) 6-15 units/mg protein (using 4MU-NANA)
Composition	Protein, ≥50% biuret

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DESCRIPTION

Description générale

Neuraminidase enzymes are hydrolase enzymes that promote influenza virus release from infected cells and facilitate virus spread.

Application

Neuraminidase from *Clostridium perfringens* (C. welchii) has been used in a study to assess a glycoprotein fraction suitable for use as a substrate in preparation assays. It has also been used in a study to investigate the action of an epsilon-toxin on MDCK cells.

Conditionnement

4, 10 units in glass bottle

Actions biochimiques/physiologiques

Neuraminidase cleavage of sialic acid groups has been used to study recognition by antibodies of glycoprotein structures. The use of neuraminidase in the estimation of N-acetylneuraminic acid was compared favorably to two other methods.

Neuraminidase from *Clostridium perfringens* reduces the viability of human leukemic myeloblasts and attenuates their ability to activate lymphocytes.

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α -2-6. Neuraminidase from *C. perfringens* cleaves α -2-3 linked sialic acid residues most efficiently, compared to *A. urearacens*, (Sigma N3642) which preferentially cleaves α -2-6 linked residues.

The use of neuraminidase to remove sialic acid residues from glycoproteins on cell surfaces has been frequently reported. Generally, procedures have indicated using neuraminidase in PBS at 37°C for 30 minutes, followed by several washings with PBS. Treatment of tissue sections with neuraminidase at much lower concentrations require longer incubation: for 1-4 U/mL in 0.1 M acetate buffer pH 4.2-5, from 2 to 20 hours at 37 °C.

Notes préparatoires

Chromatographically purified from Type V (N 2876)

Remarque sur l'analyse

Package sizes based on 4MU-NANA units

Package sizes based on the 4MU-NANA units

PRODUITS APPARENTÉS

Substrat

M8639

2'-(4-Methylumbelliferyl)- α -D-N-acetylneuraminic acid sodium salt hydrate, $\geq 95\%$ (HPLC)

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N1516

2-O-(p-Nitrophenyl)-α-D-N-acetylneuraminic acid, ≥95%

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INFORMATIONS SUR LA SÉCURITÉ

Code de la classe de stockage 11 - 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).

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Rechercher

Certificat d'origine

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Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COO)

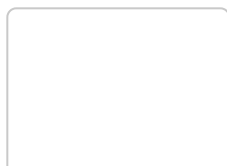
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Enzyme Explorer

FDS

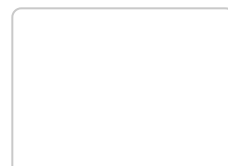
LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

N7271

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



Sigma-Aldrich

N8271

$\alpha(2\rightarrow3,6,8,9)$ Neuraminidase from *Arthrobacter ureafaciens*

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ARTICLES REVUS PAR DES PAIRS

Effect of Clostridium perfringens neuraminidase on viability and antigenicity of human leukemic myeloblasts.

C Ogier et al.

Biomedicine / [publiee pour l'A.A.I.C.I.G.], 31(9-10), 250-252 (1979-12-01)

The effect of increasing concentrations of Cl. Perfringens neuraminidase and of pH on the dye exclusion ability and lymphocyte stimulating capacity of leukemic myeloblasts was studied. The higher the neuraminidase concentration, or the lower the pH was, the more myeloblasts

Clostridium perfringens epsilon-toxin acts on MDCK cells by forming a large membrane complex.

L Petit et al.

Journal of bacteriology, 179(20), 6480-6487 (1997-10-23)

Epsilon-toxin is produced by Clostridium perfringens types B and D and is responsible for a rapidly fatal enterotoxemia in animals, which is characterized by edema in several organs due to an increase in blood vessel permeability. The Madin-Darby canine kidney

Preparation of a glycoprotein fraction from pooled human plasma and its evaluation as a substrate for the assay of Clostridium welchii (C. perfringens) neuraminidase.

A G Fraser et al.

Journal of medical microbiology, 8(2), 235-249 (1975-05-01)

A glycoprotein fraction (fraction VII) suitable for use as a substrate in assays of microbial neuraminidase was prepared from pooled human plasma. It is pasteurised during preparation to eliminate the risk of transmission of serum hepatitis. This results in polymerisation

Production of all follicle-stimulating hormone isohormones from a purified preparation by neuraminidase digestion.

A Ulloa-Aguirre et al.

Biology of reproduction, 30(2), 382-387 (1984-03-01)

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Gangliosides: structure, isolation, and analysis.

R W Ledeen et al.

Methods in enzymology, 83, 139-191 (1982-01-01)

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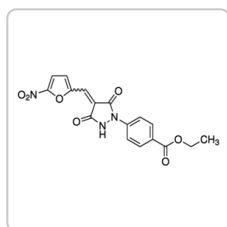
PROTOCOLES ET ARTICLES SCIENTIFIQUES

Protocoles

Enzymatic Assay of Neuraminidase

Enzymatic Assay of Neuraminidase applies to products that have a specification for neuraminidase content by enzymatic determination.

PRODUITS CONSULTÉS RÉCEMMENT



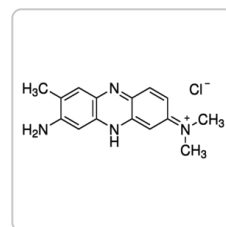
Sigma-Aldrich

N2915

PYR-41

≥98% (HPLC), powder

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Sigma-Aldrich

N2889

Neutral Red Solution (0.33%)

3.3 g/L in DPBS, sterile-filtered, BioReagent, suitable for cell culture

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