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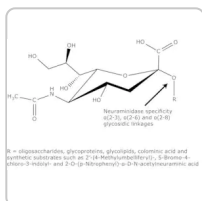
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FDS



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N2876 ► Sigma-Aldrich.

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

★★★★★ (0)

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

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
N2876-2.5UN	2.5 UNITS	✓ Date d'expédition estimée le 14 novembre 2022	60,10 €	- +
N2876-6UN	6 UNITS	✓ Only 4 left in stock (more on the way) Détails...	72,90 €	- +
N2876-25UN	25 UNITS	✓ Only 1 left in stock (more on the way) Détails...	169,00 €	- +

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625UN

625 UNITS



Only 3 left in stock (more on the way)

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1780,00 €

-

+

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PRODUITS RECOMMANDÉS



Roche

11585886001**Neuraminidase (Sialidase)**
from *Clostridium perfringens*[Consulter le prix et la disponibilité](#)

Roche

11080725001**Neuraminidase (Sialidase)**
from *Vibrio cholerae*[Consulter le prix et la disponibilité](#)

PROPRIÉTÉS

Niveau de qualité

400

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specific activity	≥0.1 units/mg solid (using mucin) ≥1.3 units/mg solid (using 4MU-NANA)
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application(s)	diagnostic assay manufacturing
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Activité étrangère	Protease and NAN-aldolase, present
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Expédié(e)s dans	dry ice
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Temp. de stockage	-20°C
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Gene Information	<i>Clostridium perfringens</i> str. 13 ... nanI(988807)
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Vous recherchez des produits similaires ? Visitez [Guide de comparaison des produits](#)

DESCRIPTION

Description générale

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

Application

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Conditionnement

2.5, 6 units in glass bottle

25, 250 units in poly bottle

Actions biochimiques/physiologiques

Neuraminidase can increase aggregation in certain cell lines by removing exposed negatively charged sialic acid residues on the cell surface.

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.

Neuraminidases are used to cleave terminal N-acetyl neuraminic acid (sialic acid) from a variety of glycoproteins. The enzyme from *Clostridium perfringens* cleaves terminal sialic acid residues which are α -2,3- α -2,6- or α -2,8-linked to Gal, GlcNac, GalNAc, AcNeu, GlcNeu, oligosaccharides, glycolipids or glycoproteins. The relative rate of cleavage decreases in the order: α -2-3 > α -2-6 . α -2-8. Neuraminidase from *C. perfringens* cleaves α -2-3 linked sialic acid residues most efficiently, compared to *A. ureafaciens*, (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.

Définition de l'unité

One unit will liberate 1.0 micromole of N-acetyl neuraminic acid per minute at pH 5.0 at 37 °C using bovine submaxillary mucin.

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Prepared by salt fractionation.

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)

[View Pricing](#)**B4666**

5-Bromo-4-chloro-3-indolyl α -D-N-acetylneuraminic acid sodium salt, $\geq 90\%$

[View Pricing](#)**N1516**

2-O-(p-Nitrophenyl)- α -D-N-acetylneuraminic acid, $\geq 95\%$

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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).

Numéro de lot

e.g. 023J5431

Comment saisir un numéro de lot (COA)**Rechercher****Certificat d'origine**

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e.g. 02555451

Comment saisir un numéro de lot (COO)

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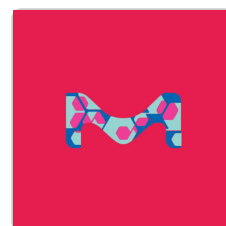


Sigma-Aldrich

480708

α 2-3,6-Neuraminidase, *Clostridium perfringens*, Recombinant, *E. coli*

Consulter le prix et la disponibilité



Sigma-Aldrich

N7271

α (2→3) Neuraminidase from *Streptococcus pneumoniae*

buffered aqueous solution

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Evaluation of a semi-automatic isoelectric focusing method for apolipoprotein E phenotyping.

Randa Bittar et al.

Practical laboratory medicine, 18, e00150-e00150 (2020-01-08)

A qualitative, semi-automatized method for apolipoprotein E (apoE) phenotyping by isoelectric focusing method has been evaluated on 40 serum samples from patients previously genotyped for apoE, especially as regards concordance with genotyping, but also repeatability and reproducibility of the method

Enhanced binding of neuraminidase-treated sheep erythrocytes to human T lymphocytes.

M S Weiner et al.

Blood, 42(6), 939-946 (1973-12-01)

A study on the mechanism of intercellular adhesion. Effects of neuraminidase, calcium, and trypsin on the aggregation of suspended HeLa cells.

J J Deman et al.

The Journal of cell biology, 60(3), 641-652 (1974-03-01)

Aggregation of suspended HeLa cells is increased on removal of cell surface sialic acid. Calcium ions promote aggregation whereas magnesium ions have no effect. The calcium effect is abolished by previous treatment of the cells with neuraminidase. Trypsinization of the

Oncolytic H-1 parvovirus binds to sialic acid on laminins for cell attachment and entry.

Amit Kulkarni et al.

Nature communications, 12(1), 3834-3834 (2021-06-24)

H-1 parvovirus (H-1PV) is a promising anticancer therapy. However, in-depth understanding of its life cycle, including the host cell factors needed for infectivity and oncolysis, is lacking. This understanding may guide the rational design of combination strategies, aid development of

Effect of bile salts on the hydrolysis of gangliosides, glycoproteins and neuraminyl-lactose by the neuraminidase of *Clostridium perfringens*.

S Gatt et al.

The Biochemical journal, 193(1), 267-273 (1981-01-01)

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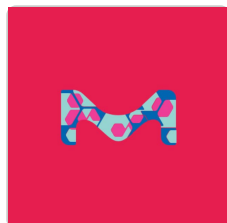
PROTOCOLES ET ARTICLES SCIENTIFIQUES

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

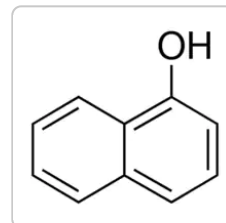


Sigma-Aldrich

N2783

Nitric Oxide Synthase, Inducible from mouse
recombinant, expressed in *E. coli*, buffered aqueous solution

[Consulter le prix et la disponibilité](#)



Sigma-Aldrich

N2780

1-Naphthol
BioXtra, ≥99%

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