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**10269611001** Roche

# Neuraminidase (Sialidase)

from *Arthrobacter ureafaciens*

**Synonyme(s):**
PCR, taq

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

| Référence | Conditionnement | Disponibilité | | Prix | Quantité |
|---|---|---|---|---|---|
| 10269611001 | 1 UNIT | Only 1 left in stock (more on the way) | Détails... | 331,00 € | − + |

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## PRODUITS RECOMMANDÉS

Roche
11080725001
Neuraminidase (Sialidase)
from *Vibrio cholerae*

Roche
11585886001
Neuraminidase (Sialidase)
from *Clostridium perfringens*

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## PROPRIÉTÉS

| | |
|---|---|
| **Source biologique** | bacterial (*Arthrobacter ureafaciens*) |
| **Niveau de qualité** | 100 |
| **Forme** | solution |
| **specific activity** | ~25 units/mg protein |
| **Conditionnement** | pkg of 1 U (100 µl) |
| **manufacturer/tradename** | Roche |
| **pH optimal** | 5.0-5.5 |
| **Expédié(e)(s) dans** | wet ice |
| **Temp. de stockage** | 2-8°C |

## Catégories apparentées

**Roche® Life Science Products**

# DESCRIPTION

## Description générale

Neuraminidase hydrolyzes terminal *N*- or *O*-acylneuraminic acids which are α2,3-, α2,6-, or α2,8-linked (rate: α2,6 > α2,3 > α2,8) 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.

## Spécificité

Cleaves terminal sialic-acid residues that are α2,3-, α2,6-, or α2,8-linked to Gal, GlcNAc, GalNAc, AcNeu, GlcNeu, oligosaccharides, glycolipids, or glycoproteins. Relative rate of cleavage is α2,6 >α2,3 >α2,8, determined on bonds in tri- and tetrasaccharides.

## Application

- cell surface lectin array analysis.
- hemagglutination assays.
- cell adhesion assay.

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.

Neuraminidase has been used for the:

- detection of the cell surface glycosylations in human anaplastic large cell lymphoma cells
- release of sialic acid from cells
- antibody-overlay lectin microarray

## Propriétés physiques

This product is a mixture of isoenzymes (L, M1, M2 and S) with the following molecular weight values: ~ 52 kDa, 66 kDa and 88 kDa.

### Forme physique

Solution in 10 mM sodium phosphate, 0.1% Micr-O-Protect (w/v), 0.25 mg/ml bovine serum albumin, pH 7

### Notes préparatoires

**Working concentration:** Enzyme/substrate ratio should be in the range of 0.04 U/25-80 µg.

### Autres remarques

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

## 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**
12 - Non Combustible Liquids

**WGK**
nwg

**Flash Point(F)**
does not flash

**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

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Numéro de lot

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**Comment saisir un numéro de lot (COO)**

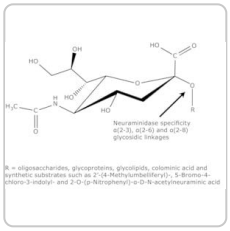
**Rechercher**

## Plus De Documents

**Enzyme Explorer**

**FDS**

## LES CLIENTS ONT ÉGALEMENT CONSULTÉ



Sigma-Aldrich

**N7885**

**Neuraminidase from *Vibrio cholerae***

Type III, buffered aqueous solution, 0.2 µm filtered, 1-5 units/mg protein (Lowry, using NAN-lactose)

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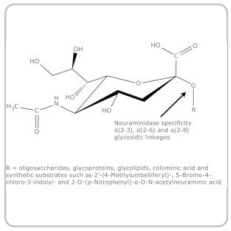

Sigma-Aldrich

**N6514**

**Neuraminidase from *Vibrio cholerae***

Type II, buffered aqueous solution, 8-24 units/mg protein (Lowry, using NAN-lactose)

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## ARTICLES REVUS PAR DES PAIRS

### SHP-1 Regulates Antigen Cross-Presentation and Is Exploited by Leishmania to Evade Immunity.

**Sofía C Khouili et al.**
*Cell reports, 33(9), 108468-108468 (2020-12-03)*

Intracellular pathogens have evolved strategies to evade detection by cytotoxic CD8+ T lymphocytes (CTLs). Here, we ask whether Leishmania parasites trigger the SHP-1-FcRγ chain inhibitory axis to dampen antigen cross-presentation in dendritic cells expressing the C-type lectin receptor Mincle. We

### SARS-CoV-2 Spike Protein Interacts with Multiple Innate Immune Receptors.

**Chao Gao et al.**
*bioRxiv : the preprint server for biology (2020-08-09)*

The spike (S) glycoprotein in the envelope of SARS-CoV-2 is densely glycosylated but the functions of its glycosylation are unknown. Here we demonstrate that S is recognized in a glycan-dependent manner by multiple innate immune receptors including the mannose receptor

### A high-throughput capillary isoelectric focusing immunoassay for fingerprinting protein sialylation.

**Lam Raga Anggara Markely et al.**
*Biotechnology progress, 32(1), 235-241 (2015-11-21)*

The serum half-life, biological activity, and solubility of many recombinant glycoproteins depend on their sialylation. Monitoring glycoprotein sialylation during cell culture manufacturing is, therefore, critical to ensure product efficacy and safety. Here a high-throughput method for semi-quantitative fingerprinting of glycoprotein

### Cellular entry of the porcine epidemic diarrhea virus

**Li W, et al.**
*Virus Research, 226, 117-127 (2016)*

### Impact of Glycosylation on the Comparability of the Higher-Order Structures in Idursulfase by Hydrogen-Deuterium Exchange Mass Spectrometry.

**Chris Barton et al.**
*Analytical chemistry, 92(12), 8306-8314 (2020-05-19)*

Characterization of the higher-order structures in idursulfase (iduronate-2-sulfatase, I2S) has been accomplished through the use of hydrogen-deuterium exchange mass spectrometry (HDX-MS). The method has over 97% sequence coverage, including seven of the eight glycosylation sites, and has been used to

Afficher tous les articles scientifiques apparentés

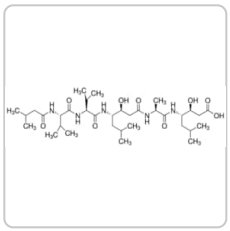
## PROTOCOLES ET ARTICLES SCIENTIFIQUES

### 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

**PEPS-RO**

**Pepstatin**

from *Streptomyces species*

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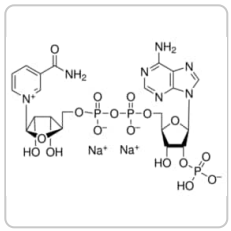

Roche

**NADP-RO**

**NADP**

Disodium salt

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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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