

Active Recombinant Streptococcus pneumoniae Sialidase Sp α -(2-3)

Cat. No. Sialidase Sp α -(2-3)-015S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Streptococcus pneumoniae Sialidase Sp α -(2-3) expressed in E. coli
Species	Streptococcus pneumoniae
Source	E. coli
Description	Sialidase Sp cleaves the non-reducing terminal α (2-3) unbranched sialic acid residues from complex
Form	Sterile-filtered solution
EC	3.2.1.18
Specificity	Cleaves the non-reducing terminal α (2-3) unbranched sialic acid residues from complex carbohydrates and glycoproteins.
Contents	Sialidase Sp in 50 mM sodium phosphate, pH 7.5 5× Reaction Buffer 250 mM sodium phosphate, pH 6.0
Bio-activity	Activity: 10 U/mL Specific Activity: 250 U/mg Defined as the amount of enzyme required to produce 1 μ mole of methylumbelliferone in 1 minute at 37 centigrade, pH 5.0 from MU-NANA [2'-(4-methylumbelliferyl)- α -D-N-acetylneuraminic acid].
Molecular Mass	~75 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Suggested usage	1. Add up to 100 µg of glycoprotein or 1 nmol of oligosaccharide to tube. 2. Add water to 14 µL 3. Add 4 µL 5× Reaction Buffer. 4. Add 2 µL α(2-3) Sialidase Sp. 5. Incubate at 37 centigrade for 1 hour Desialylation may be monitored by SDS-PAGE if the size differential between native and desialylated protein is sufficient for detection.
Unit Definition	One unit of Neuraminidase is defined as the amount of enzyme required to produce 1 µmole of methylumbelliferone in 1 minute at 37 centigrade, pH 5.0 from MU-NANA (2'-(4-methyl-umbelliferyl)-alpha-D-N acetylneuraminic acid].
pH optimum	6
Purity	Neuraminidase Sp is tested for contaminating protease as follows: 10 µg of denatured BSA is incubated at 37 centigrade for 24 hours with 2 µL of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation. The production host strain has been extensively tested and does not produce any detectable glycosidases.
Applications	1. Structural analysis of oligosaccharides 2. Determining sialic acid linkage 3. Glycoprotein deglycosylation 4. Removing heterogeneity from glycoproteins
Stability	Stable at least 12 months when stored properly. Several days exposure to ambient temperatures will not reduce activity.
Storage	Store enzyme at 4 centigrade.
Storage Buffer	The enzyme is provided as a sterile-filtered solution in 50 mM Sodium phosphate pH 7.5.

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SynonymsNeuraminidase; N-acetylneuraminate glycohydrolase; Exo- α -sialidase Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA