Creative Enzymes®

α(2→3,6) Neuraminidase from Clostridium perfringens, Recombinant

Cat. No. NATE-0972

Lot. No. (See product label)

Introduction

Description	Releases α(2-3,6)-linked sialic acid from oligosaccharides, glycoproteins, complex carbohydrates.
Applications	Structural analysis of oligosaccharides; Determining sialic acid linkage; Glycoprotein deglycosylation; Removing heterogeneity from glycoproteins
Synonyms	neuraminidase; sialidase; α-neuraminidase; acetylneuraminidase; exo-α-sialidase

Product Information

Species	Clostridium perfringens
Source	E. coli
Form	A sterile-filtered solution in 20 mM Tris-HCl, 25 mM NaCl (pH 7.5).
Molecular Weight	~41 kD
Activity	>10 U/ml (>40 U/mg)
Optimum pH	6
Specificity	This enzyme releases α2-3, and α2-6 linked N-acetylneuraminic acid from complex carbohydrates. This enzyme will not efficiently cleave NeuAc α2-6 linked to N-acetylgalactosamine (GalNAc) when the GalNAc is labeled with a fluorophore.
Buffer	5X concentrated buffer which when diluted gives 50 mM sodium phosphate pH 6.0.
Unit Definition	One unit is defined as the amount of enzyme required to catalyze the release of 1 µmole of p-nitrophenol from p-nitrophenyl-α-D-N-acetylneuraminic acid per minute at 37°C, pH 5.5.

Storage and Shipping Information

Storage	Store at 2-8°C. DO NOT FREEZE.