Creative Enzymes®

α(2→3,6,8,9) Neuraminidase from Streptococcus pneumoniae, Recombinant

Cat. No. NATE-0971

Lot. No. (See product label)

Introduction

Description	Neuraminidase, releases α(2-3)-linked sialic acid from oligosaccharides, glycoproteins, complex carbohydrates.
Synonyms	neuraminidase; sialidase; α-neuraminidase; acetylneuraminidase; exo-α-sialidase

Product Information

Species	Streptococcus pneumoniae
Source	E. coli
Form	Lyophilized from 20 mM Tris-HCl, 25 mM NaCl (pH 7.5)
Molecular Weight	~75 kD
Optimum pH	5.5
Specificity	This enzyme releases α(2-3)-linked N-acetylneuraminic acid (Neu5Ac, NANA) from complex carbohydrates. Sialidase is also active against N-glycoylneuraminic acid1 (Neu5Gc, NGNA), although similarly to other sialidases2 the activity is lower toward Neu5Gc than Neu5Ac.
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.