

$\alpha(2\rightarrow3,6,8,9)$ Neuraminidase from *Streptococcus pneumoniae*, Recombinant

Cat. No. NATE-0971

Lot. No. (See product label)

Introduction

Description Neuraminidase, releases $\alpha(2-3)$ -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 $\alpha(2-3)$ -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 μ mole of p-nitrophenol from p-nitrophenyl- α -D-N-acetylneuraminic acid per minute at 37° C, pH 5.5.