

O-Glycosidase from Streptococcus pneumoniae, Recombinant

Cat. No. NATE-0497

Lot. No. (See product label)

Introduction

Description O-Glycosidase releases unsubstituted Ser-and Thr-linked β -Gal-(1 \rightarrow 3)- α -GalNAc (Core 1 type O-glycan) from glycoproteins. Substitutions of the disaccharide core with sialic acid, lactosamine (galactose-N-acetyl glucosamine), or fucose will block hydrolysis and prevent the liberation of the oligosaccharide from the protein. Pretreatment with glycolytic enzymes to remove substituent saccharides from the O-glycan may be needed prior to cleavage using O-glycosidase.

Synonyms endo- α -acetylgalactosaminidase; endo- α -N-acetyl-D-galactosaminidase; mucinaminylserine mucinaminidase; D-galactosyl-3-(N-acetyl- α -D-galactosaminyl)-L-serine mucinaminohydrolase; endo- α -GalNAc-ase; glycopeptide α -N-acetylgalactosaminidase; D-galactosyl-N-acetyl- α -D-galactosamine D-galactosyl-N-acetyl-galactosaminohydrolase; 9032-92-2; EC 3.2.1.97

Product Information

Species Streptococcus pneumoniae

Source E. coli

Form buffered aqueous solution; Solution in 50 mM sodium phosphate, pH 7.5

EC Number EC 3.2.1.97

CAS No. 9032-92-2

Unit Definition One unit will hydrolyze 1 μ mole of p-nitrophenyl galacto-N-bioside (β -Gal-(1 \rightarrow 3)- α -GalNAc-1 \rightarrow OC₆H₄NO₂) per min at 37°C at pH 6.5.

Usage and Packaging

Package Supplied with 5 \times Reaction Buffer, 250 mM NaH₂PO₄ pH 5.0.

Storage and Shipping Information

Storage 2-8°C