Active Recombinant Streptococcus pneumoniae O-glycosidase

Cat. No. O-glycosidase-010S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Streptococcus pneumoniae O-glycosidase expressed in E. Coli
Species	Streptococcus pneumoniae
Source	E. coli
Description	O-glycosidase cleaves only unsubstituted Gal-β(1-3)GalNAc-α disaccharides attached to the serine or threonine residues of glycoproteins or glycopeptides. Substitutions such as sialic acid, galactose, fucose or N-acetylglucosamine must first be removed with the appropriate exoglycosidase before treatment with Endo-O-Glycosidase. At minimum, a sialadase such as Sialadase Au α(2-3,6,8,9) is almost always required to remove sialic acids. Kit includes enzyme plus reaction buffer. Sufficient for up to 60 reactions.
Form	Sterile-filtered solution
EC	3.2.1.97
Specificity	O-glycosidase leaves only unsubstituted Gal-β(1-3)GalNAc-α disaccharides attached to the serine or threonine residues of glycoproteins or glycopeptides. Substitutions such as sialic acid, galactose, fucose or N-acetylglucosamine must first be removed with the appropriate exoglycosidase prior to treatment with Endo-O-Glycosidase. At minimum, a sialadase such as Sialadase Au α(2-3,6,8,9), is almost always required to

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	remove sialic acids.
Contents	60 µL aliquot of enzyme (75 mU) in 50 mM sodium phosphate, pH 7.5. 5× Reaction Buffer 5.0 (250 mM sodium phosphate, pH 5.0)
Bio-activity	Activity: > 1.25 U/mL Specific Activity: > 12 U/mg Defined as the amount of enzyme required to produce 1 µmole of p-nitrophenol (pNP) in 1 minute at 37 centigrade, pH 5.0 from p-nitrophenyl-2-acetamido-2-deoxy-3-O-(β-D-galactopyranosyl)-α-D-galactopyranoside.
Molecular Mass	180 kDa
Suggested usage	1. Add up to 100 µg of glycoprotein to a tube. 2. Add de-ionized water to a total of 13 µL. 3. Add 4 µL of 5× Reaction Buffer 5.0. 4. Add 1 µL of Sialadase Au α(2-3,6,8,9) 5. Add 2 µL of O-Glycosidase. 6. Incubate for 1 hour at 37 centigrade.
Unit Definition	One unit of O-Glycosidase is defined as the amount of enzyme required to produce 1 µmole of p-nitrophenol (pNP) in 1 minute at 37 centigrade, pH 5.0 from p-nitrophenyl 2-acetamido-2-deoxy-3-O-(beta-D-galactopyranosyl) alpha-D-galactopyranoside.
Purity	O-Glycosidase is tested for contaminating protease as follows; 10 µg of denatured BSA is incubated for 24 hours at 37 centigrade with 2 µL of enzyme. SDS-PAGE analysis of the treated BSA shows no evidence of degradation.
Stability	Stable at least 12 months when stored properly. Several days exposure to ambient temperature will not reduce activity. Active for at lease 5 days under reaction conditions.
Storage	Store enzyme at 4 centigrade.

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Storage Buffer	The enzyme is provided as a sterile-filtered solution in 50 mM Sodium phosphate pH 7.5.

GENE INFORMATION

Synonyms	O-glycosidase

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