

Lacto-N-Biosidase, Recombinant

Cat. No. NATE-0855

Lot. No. (See product label)

Introduction

Description

Lacto-N-Biosidase may be used during glycoprotein analysis to better study the structure and function of glycoprotein and glycolipid sugar chains. This product can be used for specific oligosaccharide hydrolysis of type-I chain oligosaccharides, producing lacto-N-biose (Gal β 1-3 GlcNAc) as a byproduct, but not oligosaccharide hydrolysis of type-II chain oligosaccharides. As a result, Lacto-N-Biosidase can be used to distinguish type-I versus type-II glycoprotein as well as glycolipid sugar chains. When used in conjunction with α -1,3/4-Fucosidase, Lacto-N-Biosidase can also help distinguish Sialyl-Lewis x and Sialyl-Lewis a structures.

Applications

Specific hydrolysis of oligosaccharides with type-I sugar chains and production of byproduct lacto-N-biose (Gal β 1-3 GlcNAc)

Synonyms

Oligosaccharide lacto-N-biosylhydrolase; Lacto-N-Biosidase

Product Information

Source

Streptomyces sp. 142

Form

Solution in 50 mM sodium acetate buffer, pH 5.5, containing 0.05% Brij-58

Molecular Weight

60 kDa (SDS-PAGE)

Concentration

1 μ U/ μ l

pH Stability

pH 4.0–10 (4°C, 16 hrs.)

Optimum pH

pH 5.5

Unit Definition

One unit is the amount of enzyme required to hydrolyze 1 μ mol of PA-lacto-N-tetraose in 1 minute at 37°C, pH 5.5.