

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.