Creative Enzymes®

β-Mannosidase from Bacteroides fragilis, Recombinant

Cat. No. NATE-1185

Lot. No. (See product label)

Introduction

Description	Beta-mannosidase is an enzyme with system name beta-D-mannoside mannohydrolase. This enzyme catalyses the following chemical reaction:Hydrolysis of terminal, non-reducing beta-D-mannose residues in beta-D-mannosides. This gene encodes a member of the glycosyl hydrolase 2 family. The encoded protein localizes to the lysosome where it is the final exoglycosidase in the pathway for N-linked glycoprotein oligosaccharide catabolism. Mutations in this gene are associated with beta-mannosidosis, a lysosomal storage disease that has a wide spectrum of neurological involvement.
Synonyms	β-mannosidase; mannanase; mannase; β-D-mannosidase; β-mannoside mannohydrolase; exo-β-D-mannanase; EC 3.2.1.25; 9025-43-8

Product Information

Source	Bacteroides fragilis NCTC 9343
Form	Supplied in 3.2 M ammonium sulphate
EC Number	EC 3.2.1.25
CAS No.	9025-43-8
Molecular Weight	100520.1 Da
Purity	> 95 % as judged by SDS-PAGE
Activity	5.32 U/mg
Concentration	48.05 U/ml
Optimum pH	6
Unit Definition	One unit is defined as the amount of enzyme required to release 1μmol of pNP per minute from pNP-β-D-mannopyranoside (1.11 mM) in 55.6 mM sodium phosphate buffer, pH 6.0, at 25 °C, and using an extinction coefficient of 18000 M-1cm-1 at 410nm.

Storage and Shipping Information

Storage	Store at 4°C (shipped at room temperature)