

## 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)