

## β-Mannosidase from Cellvibrio mixtus, Recombinant

Cat. No. NATE-1188

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** Cellvibrio mixtus

**Form** Supplied in 3.2 M ammonium sulphate

**EC Number** EC 3.2.1.25

**CAS No.** 9025-43-8

**Molecular Weight** 50300 Da

**Purity** > 95 % as judged by SDS-PAGE

**Activity** 40 U/mg

**Concentration** 120 U/ml

**Optimum pH** 7 (stable from 6.5 – 7.5)

**Optimum temperature** 37°C (stable up to 40°C)

**Unit Definition** One unit is defined as the amount of enzyme required to release 1μmol of p-nitrophenol per hour from p-nitrophenyl-β-mannopyranoside (1 mM in the assay) in 50 mM phosphate buffer, pH 7.0, at 37°C, containing 1 mg/ml of BSA.

### Storage and Shipping Information

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