

## Native *Helix pomatia* $\beta$ -Mannosidase

Cat. No. NATE-0778

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**  $\beta$ -mannosidase; mannanase; mannase;  $\beta$ -D-mannosidase;  $\beta$ -mannoside mannohydrolase; exo- $\beta$ -D-mannanase; EC 3.2.1.25; 9025-43-8

### Product Information

**Source** *Helix pomatia*

**Form** ammonium sulfate suspension. Suspension in 3.0 M (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub> containing 10 mM sodium acetate, pH approx. 4.0

**EC Number** EC 3.2.1.25

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

**Activity** 5-30 units/mL

**Unit Definition** One unit will hydrolyze 1  $\mu$ mole of p-nitrophenyl- $\beta$ -D-mannopyranoside to p-nitrophenol and D-mannopyranoside per min at pH 4.0 at 25°C.

### Storage and Shipping Information

**Storage** 2-8°C