

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; mannanase; 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)