

## β-Mannosidase 1A from Pyrococcus furiosus, Recombinant

Cat. No. NATE-1470

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

<b>Species</b>	Pyrococcus furiosus
<b>Source</b>	E. coli
<b>Form</b>	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl <sub>2</sub> , 0.02% sodium azide and 25% (v/v) glycerol
<b>EC Number</b>	EC 3.2.1.25
<b>CAS No.</b>	37288-54-3
<b>Molecular Weight</b>	61.1 kDa
<b>Purity</b>	>90% by SDS-PAGE
<b>Concentration</b>	0.25 mg/mL
<b>Optimum pH</b>	7
<b>Optimum temperature</b>	95 °C
<b>Specificity</b>	p-nitrophenyl-β-D-mannopyranoside (ManpbNp), p-nitrophenyl-α-glucopyranoside (GlcpbNp)

### Storage and Shipping Information

**Storage** This enzyme is shipped at room temperature but should be stored at -20 °C.