Creative Enzymes®

β-Mannanase from Clostridium thermocellum, Recombinant

Cat. No. NATE-1184

Lot. No. (See product label)

Introduction

Description	Mannan endo-1,4-beta-mannosidase is an enzyme with system name 4-beta-D-mannan mannanohydrolase. This enzyme catalyses the following chemical reaction: Random hydrolysis of (1->4)-beta-D-mannosidic linkages in mannans, galactomannans and glucomannans.
Synonyms	endo-1,4-β-mannanase; endo-β-1,4-mannase; β-mannanase B; β-1, 4-mannan 4-mannanohydrolase; endo-β-mannanase; β-D-mannanase; mannan endo-1,4-β-mannosidase; 1,4-β-D-mannan mannanohydrolase; EC 3.2.1.78

Product Information

Source	Clostridium thermocellum YS
Form	Supplied in 35 mM HEPES buffer, pH 7.5, containing 750 mM NaCl, 200 mM imidazole, 3.5 mM CaCl2, 0.02 % (w/v) sodium azide and 25% (v/v) glycerol.
EC Number	EC 3.2.1.78
CAS No.	37288-54-3
Molecular Weight	42700 Da
Purity	> 95 % as judged by SDS-PAGE
Activity	1500 U/mg
Concentration	1500 U/ml
Optimum pH	6.5 (stable from 6 - 8)
Optimum temperature	65°C (stable up to 70°C)
Unit Definition	One unit is defined as the amount of enzyme required to release 1μmol of mannose-reducing-sugar equivalents per minute from galactomannan in phosphate-Citrate (PC) buffer (50 mM K2HPO4, 12 mM citric acid, pH 6.5) at 60 °C.

Storage and Shipping Information

Storage	Store at -20°C (shipped at room temperature)