Creative Enzymes®

β-1,3-Glucanase from Clostridium thermocellum, Recombinant

Cat. No. NATE-1180

Lot. No. (See product label)

Introduction

Description	Glucan endo-1,3-beta-D-glucosidase is an enzyme with system name 3-beta-D-glucan glucanohydrolase. This enzyme catalyses the following chemical reaction:Hydrolysis of (1->3)-beta-D-glucosidic linkages in (1->3)-beta-D-glucans. This enzyme is marginally active on mixed-link (1->3,1->4)-beta-D-glucans.
Synonyms	endo-1,3-β-glucanase; laminarinase; laminaranase; oligo-1,3-glucosidase; endo-1,3-β-glucanase; callase; β-1,3-glucanase; kitalase; 1,3-β-D-glucan 3-glucanohydrolase; endo-(1,3)-β-D-glucanase; (1→3)-β-glucan 3-glucanohydrolase; endo-1,3-β-D-glucanase; endo-1,3-β-glucosidase; 1,3-β-D-glucan glucanohydrolase; EC 3.2.1.39; 9044-93-3

Product Information

Source	Clostridium thermocellum ATCC 27405
Form	Supplied in 35 mM HEPES buffer, pH 7.8, containing 750 mM NaCl, 5 mM imidazole, 2.5 mM CaCl2, 0.02 % (w/v) sodium azide and 25 % (v/v) glycerol.
EC Number	EC 3.2.1.39
CAS No.	9025-37-0
Molecular Weight	82262.8 Da
Purity	> 95 % as judged by SDS-PAGE
Activity	1500 U/mg
Concentration	4500 U/ml
Optimum pH	6
Optimum temperature	65°C
Unit Definition	One unit is defined as the amount of enzyme required to release 1 μmol of glucose-reducing-sugar equivalents per minute from laminarin in 50 mM phosphate buffer, pH 6.0, at 60°C.

Storage and Shipping Information

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