Creative Enzymes®

Xyloglucanase from Clostridium thermocellum, Recombinant

Cat. No. NATE-1235

Lot. No. (See product label)

Introduction

Description	In enzymology, a xyloglucan-specific endo-beta-1,4-glucanase (EC 3.2.1.151) is an enzyme that catalyzes the chemical reaction: xyloglucan + H2O rightleftharpoons xyloglucan oligosaccharides. Thus, the two substrates of this enzyme are xyloglucan and H2O, whereas its product is xyloglucan oligosaccharides. This enzyme belongs to the family of hydrolases, specifically those glycosidases that hydrolyse O- and S-glycosyl compounds.
Synonyms	xyloglucan-specific endo-beta-1,4-glucanase; EC 3.2.1.151; [(1->6)-alpha-D-xylo]-(1->4)-beta-D-glucan glucanohydrolase; XEG; XH; xyloglucan endo-beta-1,4-glucanase; xyloglucanase; xyloglucanendohydrolase; 1,4-beta-D-glucan glucanohydrolase

Product Information

Source	Clostridium thermocellum F7/YS
Form	Supplied in a glycerol solution
EC Number	EC 3.2.1.151
Molecular Weight	82100 Da
Purity	>95 % as judged by SDS-PAGE
Activity	100 U/mg
Concentration	175 U/ml
Optimum pH	7 (stable from 6 - 8)
Optimum temperature	60°C (stable up to 65°C)
Unit Definition	One unit is defined as the amount of enzyme required to release 1μmol of glucose-reducing-sugar equivalents per minute from xyloglucan in 50 mM phosphate buffer, pH 6.5, at 60°C.

Usage and Packaging

Preparation Instructions	Centrifuge briefly if possible to remove glycerol solution from lid before use.

Storage and Shipping Information

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