

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 → 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 1 μmol 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)