Creative Enzymes®

Polygalacturonase 4A from Bacillus subtilis, Recombinant

Cat. No. NATE-1507

Lot. No. (See product label)

Introduction

Description	In enzymology, a galacturan 1,4-alpha-galacturonidase (EC 3.2.1.67) is an enzyme that catalyzes the chemical reaction: (1,4-alpha-D-galacturonide)n + H2O → (1,4-alpha-D-galacturonide)n-1 + D-galacturonate. Thus, the two substrates of this enzyme are (1,4-alpha-D-galacturonide)n and H2O, whereas its two products are (1,4-alpha-D-galacturonide)n-1 and D-galacturonate. This enzyme belongs to the family of hydrolases, specifically those glycosidases that hydrolyse O- and S-glycosyl compounds.
Synonyms	poly(1,4-alpha-D-galacturonide) galacturonohydrolase; exopolygalacturonase; poly(galacturonate) hydrolase; exo-D-galacturonase; exo-D-galacturonanase; exopoly-D-galacturonase; galacturan 1,4-alpha-galacturonidase; EC 3.2.1.67; Polygalacturonase

Product Information

Species	Bacillus subtilis
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl2, 0.02% sodium azide and 25% (v/v) glycerol
EC Number	EC 3.2.1.67
CAS No.	9045-35-6
Molecular Weight	51.5 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	0.25 mg/mL
Optimum pH	7.2-7.8
Optimum temperature	36.5 °C
Specificity	Polygalacturonans and pNPαGalUA

Storage and Shipping Information

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