

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.