

Alginate lyase from *Saccharophagus degradans*, Recombinant

Cat. No. NATE-1545

Lot. No. (See product label)

Introduction

Description

In enzymology, a poly (beta-D-mannuronate) lyase (EC 4.2.2.3) is an enzyme that catalyzes the chemical reaction: Elimination cleavage of polysaccharides containing beta-D-mannuronate residues to give oligosaccharides with 4-deoxy-alpha-L-erythro-hex-4-enopyranuronosyl groups at their ends. This enzyme belongs to the family of lyases, specifically those carbon-oxygen lyases acting on polysaccharides. This enzyme participates in fructose and mannose metabolism.

Synonyms

alginate lyase I; alginate lyase; alginase I; alginase II; alginase; poly (β-D-1,4-mannuronide) lyase; EC 4.2.2.3

Product Information

Species

Saccharophagus degradans

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 4.2.2.3

CAS No.

9024-15-1

Molecular Weight

31.7 kDa

Purity

>90% as judged by SDS-PAGE

Concentration

1 mg/mL

Optimum pH

7

Optimum temperature

50 °C

Specificity

Alginates

Storage and Shipping Information

Storage

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