Creative Enzymes®

Poly α-guluronate lyase from Zobellia galactanivorans, Recombinant

Cat. No. NATE-1563

Lot. No. (See product label)

Introduction

Description	In enzymology, a poly(alpha-L-guluronate) lyase (EC 4.2.2.11) is an enzyme that catalyzes the chemical reaction: Eliminative cleavage of polysaccharides containing a terminal alpha-L-guluronate group, to give oligosaccharides with 4-deoxy-alpha-L-erythro-hex-4-enuronosyl groups at their non-reducing ends. This enzyme belongs to the family of lyases, specifically those carbon-oxygen lyases acting on polysaccharides.
Synonyms	poly(alpha-L-1,4-guluronide) exo-lyase; alginase II; guluronate lyase; L-guluronan lyase; L-guluronate lyase; poly-alpha-L-guluronate lyase; polyguluronate-specific alginate lyase; poly(alpha-L-guluronate) lyase; EC 4.2.2.11

Product Information

Species	Zobellia galactanivorans
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 4.2.2.11
CAS No.	64177-88-4
Molecular Weight	29.1 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	7.5
Optimum temperature	30 °C
Specificity	Sodium alginate

Storage and Shipping Information

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