

Poly α -guluronate lyase from *Zobellia galactanivorans*, Recombinant

Cat. No. NATE-1563

Lot. No. (See product label)

Introduction

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| 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

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| Species | <i>Zobellia galactanivorans</i> |
| Source | <i>E. coli</i> |
| Form | 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl ₂ , 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

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