Creative Enzymes®

Exo-pectate lyase from Dickeya dadantii, Recombinant

Cat. No. NATE-1562

Lot. No. (See product label)

Introduction

Description In enzymology, a pectate disaccharide-lyase (EC 4.2.2.9) is an enzyme that catalyzes the chemical reaction: Eliminative cleavage of 4-(4-deoxy-alpha-D-galact-4-enuronosyl)-D-galacturonate from the reducing end of pectate, i.e. de-esterified pectin. This enzyme belongs to the family of lyases, specifically those carbon-oxygen lyases acting on polysaccharides.

Synonyms pectate disaccharide-lyase; EC 4.2.2.9; (1->4)-alpha-D-galacturonan reducing-end-disaccharide-lyase; pectate exo-lyase; exopectic acid transeliminase; exopectate lyase; exopolygalacturonic acid-trans-eliminase; PATE; exo-PATE; exo-PGL

Product Information

Species Dickeya dadantii

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 4.2.2.9

CAS No. 37290-87-2

Molecular Weight 65.0 kDa

Purity >90% as judged by SDS-PAGE

Concentration 0.25 mg/Ml

Optimum pH 8.5

Optimum temperature 37 °C

Specificity Polygalacturonans or short oligogalacturonans

Storage and Shipping Information

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