

Pectate lyase 1B, *Erwinia chrysanthemi*

EcPel1B (PL1)

Catalogue number	Presentation
CZ03041	1 mg
CZ03042	3 x 1 mg

Description

Pectate lyase 1B (EcPel1B), assigned the E.C. number 4.2.2.2, is a derivative of *Erwinia chrysanthemi*. It is an endo-1,4- α -polygalacturonic acid lyase. The recombinant EcPel1B, purified from *Escherichia coli*, is a single-domain Pectate Lyase family 1 (PL1) enzyme (see more details at www.cazy.org). The protein is supplied in a solution containing 35 mM NaHepes buffer (pH 7.5), 750 mM NaCl, 200 mM Imidazole, 3.5 mM CaCl₂, and 25% (v/v) glycerol, at a concentration of 1 mg/mL. Bulk quantities of this product can be made available upon request. To place an order, simply visit our website. We offer fast and secure shipping worldwide.

Electrophoretic Purity

The molecular integrity and purity of EcPel1B (PL1) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

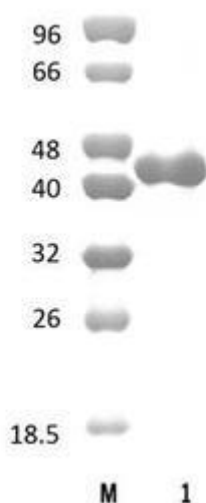


Figure 1. SDS-PAGE analysis of EcPel1B (PL1) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 40,26 kDa. Lane M contains a Protein Marker for reference.

Storage temperature

The protein should be stored at -30°C to -15°C in a constant temperature freezer. The protein will remain stable till the expiry date if stored as specified.

Substrate specificity

EcPel1B (PL1) participates in the eliminative cleavage of polygalacturonic acid.

Temperature and pH optima

The pH optimum for enzymatic activity is 9 while temperature optimum is 50 °C.

Enzyme activity

The substrate specificity and kinetic properties of *EcPel1B* (PL1) are detailed in the referenced publication provided below. To perform enzyme assays and determine specific activity values, adhere to the methodology outlined in the cited paper(s).

Reference

Keenand and Tamaki. (1986) *J Bacteriol.* 168(2): 595–606.

Hugouvieux-Cotte-Pattat *et al.* (1997) *Journal of Bacteriology.* 179(8):2503–2511.

Lietzke *et al.* (1994) *Plant Physiol.* 106(3):849-862.

Customer Support

Our dedicated customer support team is always ready to assist you with any questions or technical issues you may have. Reach us via email at info@nzytech.com.

Quality control assay

Protein purity is determined to be $\geq 90\%$, as assessed by SDS-PAGE and subsequent BlueSafe staining (MB15201).

For life science research only. Not for use in diagnostic procedures.

NZYtech Lda. Estrada do Paço do Lumiar, Campus do Lumiar - Edifício E, R/C, 1649-038 Lisboa, Portugal Tel.: +351.213643514 Fax:
+351.217151168 www.nzytech.com