CZ0937_UG_EN_V2303

Oligoalginate lyase 15A, *Agrobacterium fabrum*

*Af*Agl15A (PL15)

Catalogue number	Presentation
CZ09373	1 mg
CZ09374	3 x 1 mg

Description

Oligoalginate lyase 15A (*Af*Agl15A), assigned the E.C. number 4.2.2.26, is a derivative of *Agrobacterium fabrum*. It is an enzyme that catalysis the degradation of alginate oligosaccharides by a β-elimination mechanism. The recombinant *Af*Agl15A, purified from *Escherichia coli*, is a single-domain Pectate Lyase family 15 (PL15) 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 $CaCl_2$, 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 *Af*Agl15A (PL15) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

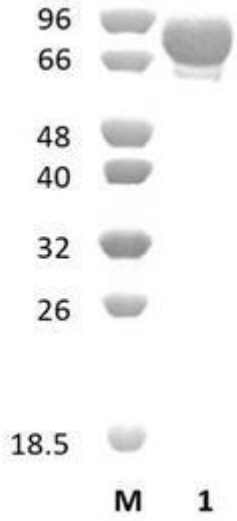

Figure 1. SDS-PAGE analysis of *Af*Agl15A (PL15) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 89,96 kDa. Lane M contains a Protein Marker for reference.

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

*Af*Agl15A (PL15) participates in the eliminative cleavage of alginate polysaccharides and oligosaccharides exolytically.

Temperature and pH optima

The pH optimum for enzymatic activity is 7.3 while temperature optimum is 30 °C.

Enzyme activity

The substrate specificity and kinetic properties of *Af*Agl15A (PL15) 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

Ochiai *et al*. (2006) Res Microbiol. 157(7):642-9.

Ochiai *et al*. (2010) J Biol Chem. 285(32):24519-28.

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 ≥90%, as assessed by SDS-PAGE and subsequent BlueSafe staining (MB15201).