

β -Glucosidase 1C, *Pectobacterium carotovorum*

PcBgl1C (GH1)

Catalogue number	Presentation
CZ03961	1 mg
CZ03962	3 x 1 mg

Description

β -Glucosidase 1C (PcBgl1C), assigned the E.C. number 3.2.1.21, is a derivative of *Pectobacterium carotovorum*. It is a 1,4- β -glucosidase. The recombinant PcBgl1C, purified from *Escherichia coli*, is a single-domain Glycoside Hydrolase family 1 (GH1) 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 PcBgl1C (GH1) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

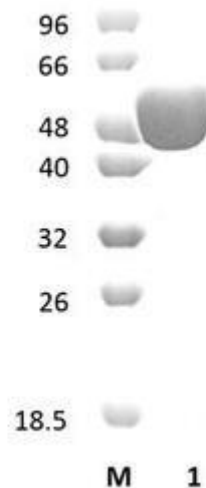


Figure 1. SDS-PAGE analysis of PcBgl1C (GH1) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 55,90 kDa. Lane M contains a Protein Marker for reference.

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

PcBgl1C (GH1) hydrolyses β -glucooligosaccharides, salicin, arbutin, pNPG and MUG.

Temperature and pH optima

The pH optimum for enzymatic activity is 7 while temperature optimum is 40 °C.

Enzyme activity

The substrate specificity and kinetic properties of PcBgl1C (GH1) 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

An *et al.* (2012) Microbiol Res. 167(8):461-9.

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