

CZ0734_UG_EN_V2302

β-Porphyranase 16C, *Bacteroides uniformis*

BuPor16C (GH16)

Catalogue number	Presentation
CZ07341	0.5 mg
CZ07342	3 x 0.5 mg

Description

 β -Porphyranase 16C (*Bu*Por16C), assigned the E.C. number 3.2.1.178, is a derivative of *Bacteroides uniformis*. It is an enzyme that participates in the hydrolysis of β -galactopyranose-1,4- α -galactopyranose-6-sulfate linkages in porphyran. The recombinant *Bu*Por16C, purified from *Escherichia coli*, is a single-domain Glycoside Hydrolase family 16 (GH16) enzyme (see more details at <u>www.cazy.org</u>). 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 0.5 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 BuPor16C (GH16) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

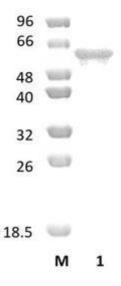


Figure 1. SDS-PAGE analysis of *Bu*Por16C (GH16) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 52,55 kDa. Lane M contains a Protein Marker for reference.

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

BuPor16C (GH16) hydrolyses porphyran.

Temperature and pH optima

The pH optimum for enzymatic activity is 8 while temperature optimum is 37 °C.

Enzyme activity

The substrate specificity and kinetic properties of *Bu*Por16C (GH16) 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

Pluvinage et al. (2018) Nat Commun. 9(1):1043.

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).

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

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