

## Xylanase 10B, *Bacteroides ovatus*

### BoXyn10B (GH10-CBM22-GH10)

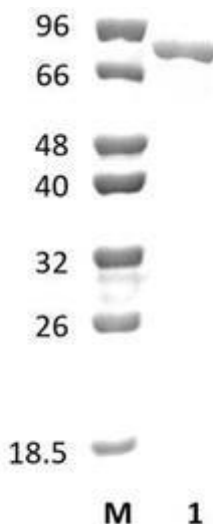
Catalogue number	Presentation
CZ07161	0.25 mg
CZ07162	3 x 0.25 mg

#### Description

Xylanase 10B (*BoXyn10B*), assigned the E.C. number 3.2.1.8, is a derivative of *Bacteroides ovatus*. It is an endo-1,4- $\beta$ -xylanase that contains an extended substrate binding cleft that requires a high degree of occupancy for catalysis to occur. The recombinant *BoXyn10B*, purified from *Escherichia coli*, is a modular Glycoside Hydrolase family 10 (GH10-CBM22-GH10) enzyme (see more details at [www.cazy.org](http://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<sub>2</sub>, and 25% (v/v) glycerol, at a concentration of 0.25 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 *BoXyn10B* (GH10-CBM22-GH10) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of *BoXyn10B* (GH10-CBM22-GH10) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 81,82 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

*BoXyn10B* (GH10-CBM22-GH10) hydrolyses xylans.

#### Temperature and pH optima

The pH optimum for enzymatic activity is 7.2 while temperature optimum is 37 °C.

## Enzyme activity

The substrate specificity and kinetic properties of *BoXyn10B* (GH10-CBM22-GH10) 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

Rogowski *et al.* (2015) *Nat Commun.* 6:7481.

## 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](mailto: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.

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**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](http://www.nzytech.com)