

## Carbohydrate Binding Module 44A, *Clostridium cellulolyticum* (PKD-CBM44)

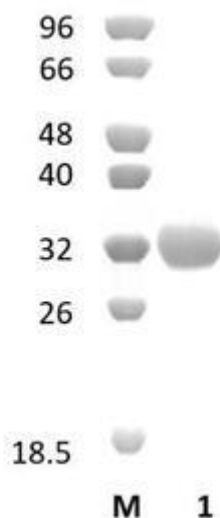
Catalogue number	Presentation
CZ10191	1 mg
CZ10192	3 x 1 mg

### Description

Carbohydrate Binding Module 44A (PKD-CBM44) is a Carbohydrate Binding Protein originating from *Clostridium cellulolyticum*. The recombinant PKD-CBM44, purified from *Escherichia coli*, is a modular protein belonging to the Carbohydrate Binding Module family 44 (CBM44, see more details at [www.cazy.org](http://www.cazy.org)) with an N-terminal PKD stabilizing domain. 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 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 PKD-CBM44 were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of PKD-CBM44 was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 29,13 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.

### Ligand specificity

PKD-CBM44 binds to cellulose and xyloglucan. The biochemical properties of PKD-CBM44 are detailed in the referenced publication(s) provided below.

## Reference

Ravachol *et al.* (2016) *Sci Rep.* 6: 22770.

Ravachol *et al.* (2014) *J Biol Chem.* 289(11):7335-48.

## 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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