

Carbohydrate Binding Module 32A, *Clostridium thermocellum* (CBM32)

Catalogue number	Presentation
CZ03371	1 mg
CZ03372	3 x 1 mg

Description

Carbohydrate Binding Module 32A (CBM32) is a Carbohydrate Binding Protein originating from *Clostridium thermocellum*. The recombinant CBM32, purified from *Escherichia coli*, is a single-domain protein belonging to the Carbohydrate Binding Module family 32 (CBM32, 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 CBM32 were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

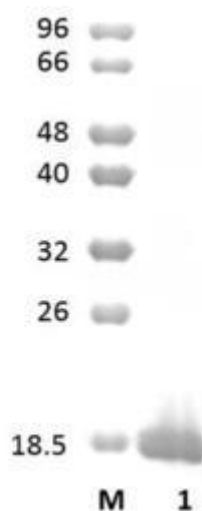


Figure 1. SDS-PAGE analysis of CBM32 was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 17,20 kDa. Lane M contains a Protein Marker for reference.

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

CBM32 binds to mannans. CBM32 binds the nonreducing ends of mannoooligosaccharides, although the protein module exhibits measurable affinity for the termini of 1,3-, 1,4- and 1,6- β -linked glucoooligosaccharides and polysaccharides. The biochemical properties of CBM32 are detailed in the referenced publication(s) provided below.

Reference

Mizutani *et al.* (2012) Appl. Environ. Microbiol. 78, 4781-4787.

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.

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