

## Carbohydrate Binding Module 4A, *Cellulomonas fimi* (CBM4)

Catalogue number	Presentation
CZ04731	0.5 mg
CZ04732	3 x 0.5 mg

### Description

Carbohydrate Binding Module 4A (CBM4) is a Carbohydrate Binding Protein originating from *Cellulomonas fimi*. The recombinant CBM4, purified from *Escherichia coli*, is a single-domain protein belonging to the Carbohydrate Binding Module family 4 (CBM4, 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 0.5 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 CBM4 were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of CBM4 was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 17,80 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

CBM4 binds to 1,3- $\beta$ -glucans. The biochemical properties of CBM4 are detailed in the referenced publication(s) provided below.

## Reference

Coutinho *et al.* (1992) *Mol Microbiol.* 6(9):1243-52.

Johnson *et al.* (1996) *Biochemistry.* 35(45):14381-94.

Brun *et al.* (2000) *Biochemistry.* 39(10):2445-58.

Boraston *et al.* (2002) *J. Mol. Biol.* 319, 1143–1156.

PDB/3D code: 1CX1, 1GU3, 1ULO, 1ULP.

## 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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