

CZ0473 UG EN V2302

## Carbohydrate Binding Module 4A, Cellulomonas fimi

# **(CBM4)**

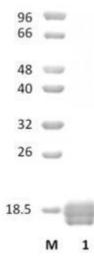
Catalogue numberPresentationCZ047310.5 mgCZ047323 x 0.5 mg

#### **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 <a href="https://www.cazy.org">www.cazy.org</a>). 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.

### **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.