

## Carbohydrate Binding Module 41A, *Thermotoga maritima* (CBM41)

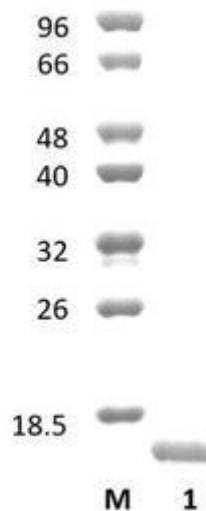
Catalogue number	Presentation
CZ08771	0.5 mg
CZ08772	3 x 0.5 mg

### Description

Carbohydrate Binding Module 41A (CBM41) is a Carbohydrate Binding Protein originating from *Thermotoga maritima*. The recombinant CBM41, purified from *Escherichia coli*, is a single-domain protein belonging to the Carbohydrate Binding Module family 41 (CBM41, 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 CBM41 were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of CBM41 was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 14,15 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

CBM41 binds to 1,4- $\alpha$ -glucans. The biochemical properties of CBM41 are detailed in the referenced publication(s) provided below.

## Reference

Lammerts van Bueren *et al.* (2004) *Biochemistry*. 43(49):15633-42.

Lammerts van Bueren and Boraston. (2007) *J Mol Biol*. 365(3):555-60.

PDB/3D code: 2J71[A], 2J72[A,B], 2J73[A,B], 2J72[A,B], 2J73[A,B].

## 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)