

# Carbohydrate Binding Module 78A, *Ruminococcus flavefaciens* (CBM78)

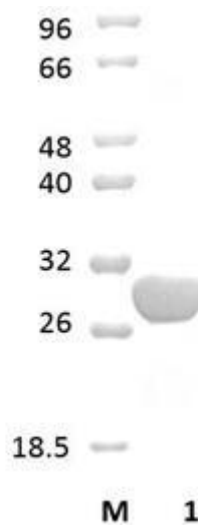
Catalogue number	Presentation
CZ04671	0.5 mg
CZ04672	3 x 0.5 mg

## Description

Carbohydrate Binding Module 78A (CBM78) is a Carbohydrate Binding Protein originating from *Ruminococcus flavefaciens*. The recombinant CBM78, purified from *Escherichia coli*, is a single-domain protein belonging to the Carbohydrate Binding Module family 78 (CBM78, 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 CBM78 were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of CBM78 was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 23,04 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

CBM78 binds to 1,3-1,4- $\beta$ -glucans, soluble 1,4- $\beta$ -glucans, xyloglucan and galactomannans. The biochemical properties of CBM78 are detailed in the referenced publication(s) provided below.

## Reference

Venditto *et al.* (2016) Proc Natl Acad Sci U S A. 113(26):7136-41.

PDB/3D code: 4V17, 4V18, 4V1B, 4V1I.

## 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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