

Carbohydrate Binding Module 63A, *Bacillus subtilis* (CBM63)

Catalogue number	Presentation
CZ10141	1 mg
CZ10142	3 x 1 mg

Description

Carbohydrate Binding Module 63A (CBM63) is a Carbohydrate Binding Protein originating from *Bacillus subtilis*. The recombinant CBM63, purified from *Escherichia coli*, is a single-domain protein belonging to the Carbohydrate Binding Module family 63 (CBM63, 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 CBM63 were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



Figure 1. SDS-PAGE analysis of CBM63 was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 13,27 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

CBM63 binds to crystalline forms of cellulose. The protein is a bacterial expansin that promotes root colonization. The biochemical properties of CBM63 are detailed in the referenced publication(s) provided below.

Reference

Kerff *et al.* (2008) Proc Natl Acad Sci U S A. 105, 16876-16881.

Georgelis *et al.* (2012) Proc Natl Acad Sci U S A.109, 14830-14835.

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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