CZ0448_UG_EN_V2302

Carbohydrate Binding Module 9A, *Thermotoga maritima* (CBM9_1-CBM9_2)

Catalogue number	Presentation
CZ04481	1 mg
CZ04482	3 x 1 mg

Description

Carbohydrate Binding Module 9A (CBM9_1-CBM9_2) is a Carbohydrate Binding Protein originating from *Thermotoga maritima*. The recombinant CBM9_1-CBM9_2, purified from *Escherichia coli*, is a modular protein belonging to the Carbohydrate Binding Module family 9 (CBM9, see more details at www.cazy.org)with two CBM9 module repeats. The protein is supplied in a solution containing 35 mM NaHepes buffer (pH 7.5), 750 mM NaCl, 200 mM Imidazole, 3.5 mM $CaCl_2$, 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 CBM9_1-CBM9_2 were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

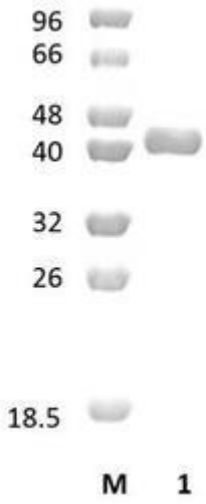

Figure 1. SDS-PAGE analysis of CBM9_1-CBM9_2 was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 43,00 kDa. Lane M contains a Protein Marker for reference.

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

CBM9_1-CBM9_2 binds to non-reducing ends of cellulose. The biochemical properties of CBM9_1-CBM9_2 are detailed in the referenced publication(s) provided below.

Reference

Winterhalter *et al.* (1995) Mol Microbiol. 15(3):431-44.

Boraston *et al.* (2001) Biochemistry 40(21):6240-6247.

Notenboom *et al*. (2001) Biochemistry. 40(21):6248-56.

PDB/3d code: 1I82[A], 1I8A[A], 1I8U[A].

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).