

Cellobiohydrolase 6A, *Podospora anserina*

PaCbh6A (CBM1-GH6)

Catalogue number	Presentation
CZ02931	0.5 mg
CZ02932	3 x 0.5 mg

Description

Cellobiohydrolase 6A (*PaCbh6A*), assigned the E.C. number 3.2.1.91, is a derivative of *Podospora anserina*. It is an exo-1,4- β -glucanase. The recombinant *PaCbh6A*, purified from *Pichia pastoris*, is a modular Glycoside Hydrolase family 6 (CBM1-GH6) enzyme (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 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 *PaCbh6A* (CBM1-GH6) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



Figure 1. SDS-PAGE analysis of *PaCbh6A* (CBM1-GH6) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 70 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.

Substrate specificity

PaCbh6A (CBM1-GH6) hydrolyses avicel and carboxymethyl cellulose.

Temperature and pH optima

The enzyme exhibits optimal activity within a pH range of 5.0-9.0 and at a temperature of 45°C. Maximal enzymatic activity is achieved at pH 7 and a consistent temperature of 45°C.

Enzyme activity

The substrate specificity and kinetic properties of PaCbh6A (CBM1-GH6) are detailed in the referenced publication provided below. To perform enzyme assays and determine specific activity values, adhere to the methodology outlined in the cited paper(s).

Reference

Poidevin *et al.* (2013) Applied and Environmental Microbiology 79, 4220–4229.

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.

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