CZ0292_UG_EN_V2303

Arabinofuranosidase 62A, *Podospora anserina*

*Pa*Abf62A (GH62)

Catalogue number	Presentation
CZ02923	1 mg
CZ02924	3 x 1 mg

Description

Arabinofuranosidase 62A (*Pa*Abf62A), assigned the E.C. number 3.2.1.55, is a derivative of *Podospora anserina*. It is an exo-α-arabinofuranosidase. The recombinant *Pa*Abf62A, purified from *Pichia pastoris*, is a single-domain Glycoside Hydrolase family 62 (GH62) 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 $CaCl_2$, 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 *Pa*Abf62A (GH62) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

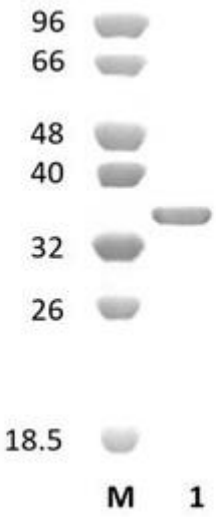

Figure 1. SDS-PAGE analysis of *Pa*Abf62A (GH62) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 34,34 kDa. Lane M contains a Protein Marker for reference.

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

*Pa*Abf62A (GH62) hydrolyses wheat arabinoxylan and sugar beet arabinan.

Temperature and pH optima

The enzyme exhibits optimal activity within a pH range of 4.0-6.0 and at a temperature of 55°C. Maximal enzymatic activity is achieved at pH 4 and a consistent temperature of 55°C.

Enzyme activity

The substrate specificity and kinetic properties of *Pa*Abf62A (GH62) 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

Couturier *et al.* (2011) Applied and Environmental Mibrobiology 77, 237–246.

Siguier *et al*. (2014) The Journal of Biological Chmistry 289, 5261-5273.

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).