

## $\beta$ -D-Fucosidase 30A, *Prevotella bryantii*

### *PbFuc30A* (GH30)

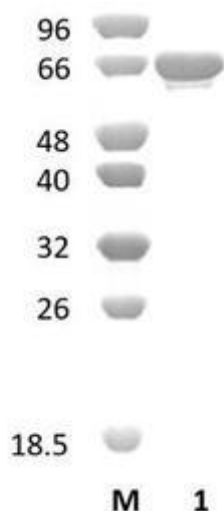
Catalogue number	Presentation
CZ09631	1 mg
CZ09632	3 x 1 mg

#### Description

$\beta$ -D-Fucosidase 30A (*PbFuc30A*), assigned the E.C. number 3.2.1.38, is a derivative of *Prevotella bryantii*. It is an enzyme that participates in the hydrolysis of terminal non-reducing  $\beta$ -D-fucose residues in  $\beta$ -D-fucosides. The recombinant *PbFuc30A*, purified from *Escherichia coli*, is a single-domain Glycoside Hydrolase family 30 (GH30) enzyme (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  $\text{CaCl}_2$ , 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 *PbFuc30A* (GH30) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of *PbFuc30A* (GH30) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 64,99 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

*PbFuc30A* (GH30) hydrolyses pNP- $\beta$ -D-fucopyranoside.

#### Temperature and pH optima

The pH optimum for enzymatic activity is 5 while temperature optimum is 37 °C.

### Enzyme activity

The substrate specificity and kinetic properties of *PbFuc30A* (GH30) 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

Yoshida *et al.* (2011) *Biochemistry*. 50(16):3369-75.

### 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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