

Glucuronidase 67A, *Cellvibrio japonicus*

CjGlc67A (GH67)

Catalogue number	Presentation
CZ00201	2 mg
CZ00202	3 x 2 mg

Description

Glucuronidase 67A (CjGlc67A), assigned the E.C. number 3.2.1.131, is a derivative of *Cellvibrio japonicus*. It is a xylooligosaccharide 1,2- α -glucuronidase. The recombinant CjGlc67A, purified from *Escherichia coli*, is a single-domain Glycoside Hydrolase family 67 (GH67) 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 2 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 CjGlc67A (GH67) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

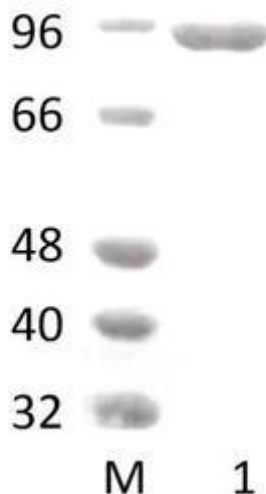


Figure 1. SDS-PAGE analysis of CjGlc67A (GH67) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 98,62 kDa. Lane M contains a Protein Marker for reference.

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

CjGlc67A (GH67) hydrolyses 4-O-methyl-D-glucuronic acid from 4-O-methyl-D-glucuronoxyloligosaccharides but not from 4-O-methyl-D-glucuronoxylan.

Temperature and pH optima

The enzyme exhibits optimal activity within a pH range of 5.0-8.0 and at a temperature of 45°C. Maximal enzymatic activity is achieved at pH 6.3 and a consistent temperature of 45°C.

Specific activity

CjGlc67A (GH67) specific activity is 80 U/mg, using aldopentaauronic acid as substrate.

Enzyme activity

Substrate specificity and kinetic properties of CjGlc67A (GH67) 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

Nagy *et al.* (2002) J Bacteriol. 184, 4925-4929.

Nagy *et al.* (2003) J. Biol. Chem.278, 20286-20292.

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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