

CZ0767_UG_EN_V2302

1,3-β-Galactosyl-N-acetylhexosamine *Bifidobacterium longum*

phosphorylase

112A,

BIGah112A (GH112)

Catalogue number Presentation CZ07671 1 mg

CZ07672 3 x 1 mg

Description

Electrophoretic Purity

The molecular integrity and purity of *BI*Gah112A (GH112) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

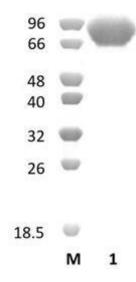


Figure 1. SDS-PAGE analysis of *BI*Gah112A (GH112) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 86,29 kDa. Lane M contains a Protein Marker for reference.

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

BlGah112A (GH112) hydrolyses GlcNAc oligomers.

Temperature and pH optima

The pH optimum for enzymatic activity is 8.5 while temperature optimum is 40 °C.

Enzyme activity

The substrate specificity and kinetic properties of *BI*Gah112A (GH112) 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

Kitaoka et al. (2005) Appl Environ Microbiol. 71(6):3158-62.

Nishimoto and Kitaoka. (2007) Appl Environ Microbiol. 73(20): 6444-6449.

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.