

CZ0007_UG_EN_V2302

Xylanase 10A, Cellvibrio japonicus

*Cj*Xyn10A (CBM22-GH10)

Catalogue numberPresentationCZ000711.5 mgCZ000723 x 1.5 mg

Description

Xylanase 10A (CjXyn10A), assigned the E.C. number 3.2.1.8, is a derivative of Cellvibrio japonicus. It is an endo-1,4-β-xylanase. The recombinant CjXyn10A, purified from Escherichia Cii, is a modular Glycoside Hydrolase family 10 (CBM22-CB

Electrophoretic Purity

The molecular integrity and purity of *Cj*Xyn10A (CBM22-GH10) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

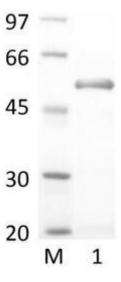


Figure 1. SDS-PAGE analysis of *Cj*Xyn10A (CBM22-GH10) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 59,20 kDa. Lane M contains a Protein Marker for reference.

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

 $\it Cj$ Xyn10A (CBM22-GH10) hydrolyses a large variety of decorated and undecorated xylans.

Temperature and pH optima

The enzyme exhibits optimal activity within a pH range of 7.0-8.0 and at a temperature of 37°C. Maximal enzymatic activity is achieved at pH 7.5 and a consistent temperature of 37°C.

Specific activity

CjXyn10A (CBM22-GH10) specific activity is 1800 U/mg, using wheat arabinoxylan as substrate.

Enzyme activity

Substrate specificity and kinetic properties of *Cj*Xyn10A (CBM22-GH10) 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

Charnock et al. (1997) J. Biol. Chem. 272, 2942-2951.

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.