

CZ0053 UG EN V2302

Lichenase 26A & Cellulase 5E, Clostridium thermocellum

CtLic26A-Cel5E (GH26-GH5-CBM11)

Catalogue numberPresentationCZ005310.6 mgCZ005323 x 0.6 mg

Description

Lichenase 26A & Cellulase 5E (CtLic26A-Cel5E), assigned the E.C. number 3.2.1.73 and 3.2.1.4, is a derivative of CtLic26A-Cel5E, assigned the E.C. number 3.2.1.73 and 3.2.1.4, is a derivative of CtLic26A-Cel5E, purified from CtLic26A-Cel5E, puri

Electrophoretic Purity

The molecular integrity and purity of CtLic26A-Cel5E (GH26-GH5-CBM11) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

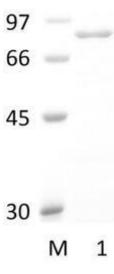


Figure 1. SDS-PAGE analysis of *Ct*Lic26A-Cel5E (GH26-GH5-CBM11) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 92,04 kDa. Lane M contains a Protein Marker for reference.

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

CtLic26A-Cel5E (GH26-GH5-CBM11) hydrolyses is a bi-functional enzyme that hydrolyses mixed 1,3-1,4-β-glucans (GH26) and 1,4-β-glucans (GH5).

Temperature and pH optima

The enzyme exhibits optimal activity within a pH range of 4.5-8.0 and at a temperature of 60°C. Maximal enzymatic activity is achieved at pH 6 and a consistent temperature of 60°C.

Specific activity

CtLic26A-Cel5E (GH26-GH5-CBM11) specific activity is 700 U/mg, using barley β -glucan as substrate.

Enzyme activity

Substrate specificity and kinetic properties of *Ct*Lic26A-Cel5E (GH26-GH5-CBM11) 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

Taylor et al. (2005) J. Biol. Chem. 280, 32761-32767.

Yuan et al. (2015) J. Biol. Chem. 290 (9), 5739-5748.

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.