

CZ1111 UG V2301

Sialidase 156A, Opitutaceae bacterium

ObNan156A (GH156)

Catalogue number Presentation

CZ11111 1 mg CZ11112 3 x 1 mg

Description

Sialidase 156A (ObNan156A), assigned the E.C. number 3.2.1.18, is a derivative of Opitutaceae bacterium. It is an exo- α -sialidase. The recombinant ObNan156A, purified from Escherichia coli, is a single-domain Glycoside Hydrolase family 156 (GH156) enzyme (see more details at $\underline{www.cazy.org}$). 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 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 *Ob*Nan156A (GH156) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).

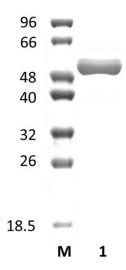


Figure 1. SDS-PAGE analysis of *Ob*Nan156A (GH156) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 56,42 kDa. Lane M contains a Protein Marker for reference.

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

ObNan156A (GH156) hydrolyses 4-methylumbelliferyl- α -d-N-acetylneuraminic acid (4MU-Neu5Ac).

Temperature and pH optima

The pH optimum for enzymatic activity is 7 while temperature optimum is 37 °C.

Specific activity

The specific activity of ObNan156A (GH156) was determined against 4-methylumbelliferyl- α -d-N-acetylneuraminic acid (4MU-Neu5Ac), under standard conditions (37 °C in 0.1 M of citrate-phosphate buffer, pH 7.0), by monitoring 4MU fluorescence at λ ex = 365 nm and λ em = 445 nm. One unit of enzyme activity (1 U) is defined as the amount of enzyme required to release 1 μ mol of product, per min, under standard conditions. The specific activity of ObNan156A (GH156) is denoted as 231 U/mg for 4MU-Neu5Ac.

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.