

## $\beta$ -Acetylglucosaminidase 20A, *Neisseria chenwenguii*

### NcAcp20A (GH20)

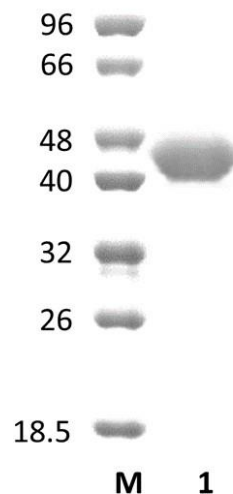
Catalogue number	Presentation
CZ11061	0,5 mg
CZ11062	3 x 0,5 mg

#### Description

$\beta$ -Acetylglucosaminidase 20A (NcAcp20A), assigned the E.C. number 3.2.1.-, is a derivative of *Neisseria chenwenguii*. It is a peptidoglycan hydrolase with endo- $\beta$ -N-acetylglucosaminidase specificity. The recombinant NcAcp20A, purified from *Escherichia coli*, is a single-domain Glycoside Hydrolase family 20 (GH20) enzyme (see more details at [www.cazy.org](http://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 CaCl<sub>2</sub>, and 25% (v/v) glycerol, at a concentration of 0,5 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 NcAcp20A (GH20) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of NcAcp20A (GH20) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 46,84 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.

#### Temperature and pH optima

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

#### Specific activity

NcAcp20A (GH20) has shown the ability to promote a 70.0% biofilm biomass reduction in *Staphylococcus aureus*' biofilm degradation assays and a 70.0% biofilm biomass reduction in *Staphylococcus aureus*' biofilm inhibition assays.

## 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](mailto: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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