

## Lysozyme 24B, *Escherichia coli*

### **EcLys24B (GH24)**

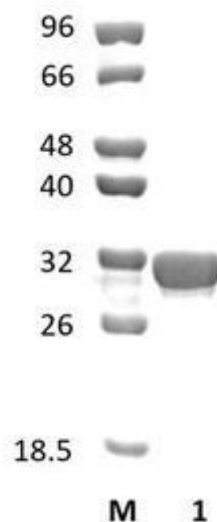
Catalogue number	Presentation
CZ07193	0.5 mg
CZ07194	3 x 0.5 mg

#### Description

Lysozyme 24B (*EcLys24B*), assigned the E.C. number 3.2.1.17, is a derivative of *Escherichia coli*. It is an enzyme that participates in the hydrolysis of 1,4- $\beta$ -linkages between N-acetylmuramic acid and N-acetyl-glucosamine residues in a peptidoglycan and between N-acetyl-D-glucosamine residues in chitodextrins. The recombinant *EcLys24B*, purified from *Escherichia coli*, is a single-domain Glycoside Hydrolase family 24 (GH24) 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 *EcLys24B* (GH24) were evaluated using sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE), followed by BlueSafe staining (MB15201) (Figure 1).



**Figure 1.** SDS-PAGE analysis of *EcLys24B* (GH24) was conducted in (Lane 1), employing a 14% polyacrylamide gel. The enzyme exhibits a band corresponding to a molecular weight of approximately 30,21 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

*EcLys24B* (GH24) hydrolyses peptidoglycans.

#### Temperature and pH optima

The pH optimum for enzymatic activity is 7.5 while temperature optimum is 25 °C.

## Enzyme activity

The substrate specificity and kinetic properties of *EcLys24B* (GH24) 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

Keck *et al.* (1985) *Eur J Biochem.* 148(3):493-7.

Srividhya and Krishnaswamy. (2007) *J Biosci.* 32(5):979-90.

Coelho *et al.* (2020) *J Anim Physiol Anim Nutr (Berl).* 104(1):310-321.

## 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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