

For Research Use Only

Recombinant Human Lysozyme protein (rFc Tag) (HPLC verified)



Catalog Number: Eg4630

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human Lysozyme protein Lys19-Val148 (Accession# P61626) with a rabbit IgG Fc tag at the N-terminus.

GeneID:
4069

Accession:
P61626

Predicted Molecular Mass:
41.9 kDa

SDS-PAGE:
40-47 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

LYZ (Lysozyme) is also named as LZM and belongs to the glycosyl hydrolase 22 family, and is a well-known antimicrobial peptide that exists widely in mammalian skin. It catalyzes the hydrolysis of the bacterial cell wall beta(1-4) glycosidic linkages between N-acetylmuramic acid and N-acetylglucosamine. Lysozyme (LYZ) is an integral component of the innate immune system and is known for its antibacterial properties. It is produced by various cell types, with higher expression observed in mucus and saliva.

References

1. Su Y. et al. (2015) Acta Histochem. 117(8):798-802.
2. Rouchon CN. et al. (2022) Antimicrob Agents Chemother. 66(5):e0233921.
3. Ren Y. et al. (2023) Arch Med Sci. 20(1):233-247.
4. Swaminathan R. et al. (2011) Adv Protein Chem Struct Biol. 84:63-111.
5. Liu J. et al. (2011) Poult Sci. 97(11):3992-3999.

Synonyms

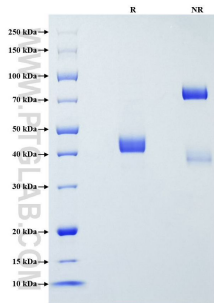
LYZ, 1,4-beta-N-acetylmuramidase C, EC:3.2.1.17, Lysozyme C, LZM

For technical support and original validation data for this product please contact

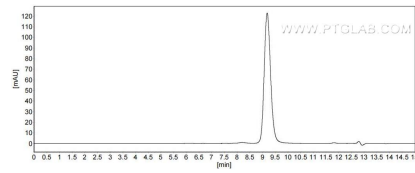
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Selected Validation Data



Purity of Recombinant Human Lysozyme was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human Lysozyme was greater than 90% as determined by SEC-HPLC.