

Recombinant Human LBP protein (His Tag)

Catalog Number: Eg0651

Basic Information

Species:
Human**Purity:**
>90 %, SDS-PAGE**Tag:**
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<1.0 EU/ µg protein, LAL method

Source:

HEK293-derived Human LBP protein Ala26-Val481(Accession# P18428) with a His tag at the C-terminus.

GeneID:

3929

Accession:

P18428

Predicted Molecular Mass:

55.4 kDa

SDS-PAGE:**Formulation:**

Lyophilized from sterile 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

Lipopolysaccharide-binding protein (LBP) is a soluble acute-phase protein primarily produced by hepatocytes and plays a crucial role in the innate immune response to Gram-negative bacterial infections. It binds to lipopolysaccharides (LPS) on the bacterial surface, facilitating the transfer of LPS to CD14 and TLR4 receptors on immune cells, thereby initiating inflammatory signaling pathways. LBP levels increase significantly during infections and sepsis, making it a potential biomarker for these conditions. Additionally, LBP has been implicated in modulating immune responses in various inflammatory and autoimmune diseases.

References

1. Zhang, Qilun et al. Nature communications vol. 15,1 3213. 13 Apr. 2024.

2. Fang

Synonyms

Selected Validation Data

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

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