

# Recombinant Human Lipopolysaccharide-binding protein/LBP Protein

Catalog No.: RP00418 Recombinant

## **Sequence Information**

**Species Gene ID Swiss Prot** Human 3929 P18428

**Tags** C-His

Synonyms BPIFD2:LBP

#### **Product Information**

Source Purification

HEK293 cells ≥ 95 % as

determined by SDS-PAGE

Calculated MW Observed MW

51.95 kDa 64 kDa

### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.2.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

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## **Background**

This protein is involved in the acute-phase immunologic response to gram-negative bacterial infections. Gram-negative bacteria contain a glycolipid, lipopolysaccharide (LPS), on their outer cell wall. Together with bactericidal permeability-increasing protein (BPI), the encoded protein binds LPS and interacts with the CD14 receptor, probably playing a role in regulating LPS-dependent monocyte responses. Studies in mice suggest that the encoded protein is necessary for the rapid acute-phase response to LPS but not for the clearance of LPS from circulation. This protein is part of a family of structurally and functionally related proteins, including BPI, plasma cholesteryl ester transfer protein (CETP), and phospholipid transfer protein (PLTP).

#### **Basic Information**

#### **Description**

Recombinant Human Lipopolysaccharide-binding protein/LBP Protein is produced by Human Cell expression system. The target protein is expressed with sequence (Ala26-Val481) of human LBP/Lipopolysaccharide-binding protein (Accession #P18428) fused with a 6×His tag at the C-terminus.

#### **Bio-Activity**

#### **Shipping**

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

## Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

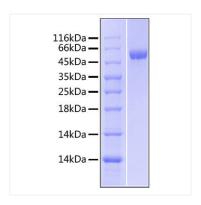
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

## **Validation Data**



Recombinant Human Lipopolysaccharidebinding protein/LBP Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.