



## Synonym

Lipopolysaccharide-binding protein, LBP

## Source

Human Lipopolysaccharide-binding (I465F) Protein, His Tag(LBP-H52H5) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Val 481 (Accession # [P18428-1](#) (I465F)).

Predicted N-terminus: Ala 26

## Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 52.8 kDa. The protein migrates as 62 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

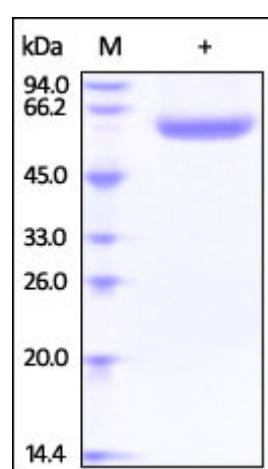
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human Lipopolysaccharide-binding (I465F) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Background

Lipopopolysaccharide-binding protein (LBP), a member of the BPI/LBP/Plunc superfamily, BPI/LBP family, is detected in blood serum. LBP plays a role in the innate immune response. Also, LBP can bind to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria, and act as an affinity enhancer for CD14, facilitating its association with LPS. Furthermore, LBP is able to promote the release of cytokines in response to bacterial lipopolysaccharide.

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# Human LBP / Lipopolysaccharide-binding (I465F) Protein, His Tag

Catalog # LBP-H52H5



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