

# Recombinant Human Lipopolysaccharide Binding Protein

Cat. No. LBP-1661H Lot. No. (See product label)

## SPECIFICATION

**Species**

Human

**Source**

Mammalian Cells

**Description**

Lipopolysaccharide binding protein, also known as LBP, is a soluble acute phase secretory protein that binds to bacterial lipopolysaccharide (LPS) to elicit immune responses by presenting the LPS to important cell surface pattern recognition receptors called CD14 and TLR4. LBP is a major mediator of the lethal effects of endotoxemia.

**Molecular Weight**

The predicted molecular weight of Recombinant Human LBP is Mr 51 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 55-60 kDa.

**State Of Matter**

Lyophilized.

**Purity**

&gt;97% by SDS Page and analyzed by silver stain.

**Storage And Stability**

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

## GENE INFORMATION

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<b>Gene Name</b>	LBP lipopolysaccharide binding protein [ Homo sapiens ]
<b>Synonyms</b>	LBP; lipopolysaccharide binding protein; MGC22233; lipopolysaccharide-binding protein; LPS-binding protein; OTTHUMP00000030965
<b>Gene ID</b>	3929
<b>mRNA Refseq</b>	NM_004139
<b>Protein Refseq</b>	NP_004130
<b>MIM</b>	151990
<b>UniProt ID</b>	P18428
<b>Chromosome Location</b>	20q11.23-q12
<b>Pathway</b>	Toll-like receptor signaling pathway; Signaling in Immune system
<b>Function</b>	Gram-negative bacterial cell surface binding; Gram-positive bacterial cell surface binding; cell surface binding; lipid binding; lipopolysaccharide binding; lipoteichoic acid binding; receptor binding

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