

## Recombinant Human LBP Protein

Cat. No. LBP-821H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human LBP protein without tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	481
<b>Description</b>	<p>The protein encoded by this gene 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).</p>
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	52.8 kDa
<b>AA Sequence</b>	MGALARALPSILLALLLTSTPEALGANPGLVARITDKGLQYAAQEGLLALQSELLRITL PDFTGDLRIPHVGRGRYEFHSLNIHSCCELLHSALRPVPGQGLSLSISDSSIRVQGRW

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KVRKSFFKLQGSFDVSVKGISISVNLLLGSESSGRPTVTASSCSSDIADVEVDMMSGDL  
 GWLLNLFHNQIESKFQKVLERSRICEMIQKSVSSDLQPYLQTLPTTEIDSFADIDYSLV  
 EAPRATAQMLEVFMFKGEIFHRNHRSPVTLAAVMSLPEEHNKVMVYFAISDYVFNTAS  
 LVYHEEGYLNFSITDDMIPPDSNIRLTTKSRFPFVRLARLYPNMNLELQGSVPSAPL  
 LNFSPGNLSVDPYMEIDAFVLLPSSSKEPVFRLSVATNVSATLTFNTSKITGFLKPGK  
 VKVELKESKVGLFNAELLEALLNYYILNTFYPKFNDKLAEGFPLPLLKRVLQYDLGLQI  
 HKDFLFLGANVQYMRV

**Purity** > 98%

**Applications** Migration Assay;

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** LBP lipopolysaccharide binding protein [ Homo sapiens (human) ]

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<b>Official Symbol</b>	<a href="#">LBP</a>
<b>Synonyms</b>	LBP; lipopolysaccharide binding protein; lipopolysaccharide-binding protein; BPI fold containing family D; member 2; BPIFD2; LPS-binding protein; BPI fold containing family D, member 2; MGC22233;
<b>Gene ID</b>	<a href="#">3929</a>
<b>mRNA Refseq</b>	<a href="#">NM_004139</a>
<b>Protein Refseq</b>	<a href="#">NP_004130</a>
<b>MIM</b>	<a href="#">151990</a>
<b>UniProt ID</b>	<a href="#">P18428</a>

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