

Recombinant Human LBP Protein

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

SPECIFICATION

Product Overview	Recombinant human LBP protein without tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	481
Description	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).
Form	Lyophilized
Molecular Mass	52.8 kDa
AA Sequence	MGALARALPSILLALLLTSTPEALGANPGLVARITDKGLQYAAQEGLLALQSELLRITL PDFTGDLRIPHVGRGRYEFHSLNIHSCCELLHSALRPVPGQGLSLSDSSIRVQGRW

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KVRKSFFKLQGSFDVSVKGISISVNLLGSESSGRPTVTASSCSSDIADVEVDMMSGDL
 GWLLNLFHNQIESKFQKVLESRICEMIQKSVSSDLQPYLQTLPTTEIDSFADIDYSLV
 EAPRATAQMLEVFMFKGEIFHRNHRSPVTLLAAVMSLPEEHNKMOVFAISDYVFNTAS
 LVYHEEGYLNFSITDDMIPPDSNIRLTTSKSRPFVPRRLARLYPNMNLQGSVPSAPL
 LNFSPGNLSVDPYMEIDAFVLLPSSSKEPVFRLSVATNVSATLTFNTSKITGFLKPGK
 VKVELKESKVGLFNAELLEALLNYYILNTFYKPKFNDKLAEGFPLPLLKRVQLYDLGLQI
 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 H₂O 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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Official Symbol	LBP
Synonyms	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;
Gene ID	3929
mRNA Refseq	NM_004139
Protein Refseq	NP_004130
MIM	151990
UniProt ID	P18428

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