

Active Recombinant Human LBP, His-tagged

Cat. No. LBP-152H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Lipopolysaccharide Binding Protein is produced from human LBP transfected CHO-cells in serum free medium. Before transfection the complete human LBP-cDNA was amplified by PCR and cloned into expression vector p-POL-DHFR. The recombinant Human LBP was purified by his-tag with metal affinity purification with Talon and controlled by SDS page. Attention: His-tag has no protease site and can not be split off.
Species	Human
Source	CHO
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	Sterile Filtered White lyophilized (freeze-dried) powder. Recombinant Human LBP was lyophilized from a protein solution (0.25 mg/ml) containing phosphate-buffered

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	saline, pH 7.2.
Bio-activity	Up to 0.2 μ g/ml LBP mediates binding of FITC-LPS (0.5 μ g/ml) to CD14+CHO transfectants (FACS).
Molecular Mass	On SDS-PAGE commassie blue stained gel, the 95% purified recombinant protein shows a band at 58 kDa.
Stability	Lyophilized LBP Human Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LBP should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.
Reconstitution	Every 10g of recombinant human LBP should be reconstituted using 40 μ l of sterile H ₂ O. The solution can be then diluted with phosphate-buffered saline or other buffers.

GENE INFORMATION

Gene Name	LBP lipopolysaccharide binding protein [Homo sapiens (human)]
Official Symbol	LBP
Synonyms	LBP; lipopolysaccharide binding protein; MGC22233; lipopolysaccharide-binding protein; LPS-binding protein; OTTHUMP00000030965
Gene ID	3929
mRNA Refseq	NM_004139
Protein Refseq	NP_004130

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MIM	151990
UniProt ID	P18428
Chromosome Location	20q11.23
Pathway	IL6-mediated signaling events; NF-kappa B signaling pathway; Toll Like Receptor 4 (TLR4) Cascade
Function	lipopolysaccharide binding; lipoteichoic acid binding; protein binding; receptor binding

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