

Recombinant human LBP protein

Catalog Number: ATGP3989

PRODUCT INFORMATION

Expression system

HEK293

Domain

26-481aa

UniProt No.

P18428

NCBI Accession No.

NP_004130.2

Alternative Names

Lipopolysaccharide-binding protein, LBP, BPIFD2, MGC22233, LCD-binding protein, OTTHUMP00000030965

PRODUCT SPECIFICATION

Molecular Weight

51.7kDa (462aa)

Concentration

0.25mg/ml (determined by absorbance at 280nm)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

LBP, also known as Lipopolysaccharide-binding protein, is a glycoprotein member of the BPI/LBP family of lipid-binding proteins. LBP is a glycoprotein that is synthesized principally by hepatocytes. It binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria. It binds to LPS to elicit immune responses by presenting the LPS to important cell surface pattern

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recognition receptors called CD14 and TLR4. Recombinant human LBP, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

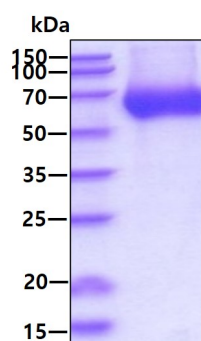
ANPGLVARIT DKGLQYAAQE GLLALQSELL RITLPDFTGD LRIPHVGRGR YEFHSLNIHS CELLHSALRP VPGQGLSLSI
SDSSIRVQGR WKVRKSFFKL QGSFDVSVKG ISISVNLLLG SESSGRPTVT ASSCSDIAD VEVDMSGDLG WLLNLFHNQI
ESKFQKVLES RICEMIQKSV SSDLQPYLQT LPVTTEIDSF ADIDYSLVEA PRATAQMLEV MFKGEIFHRN HRSPVTLAA
VMSLPEEHNK MVYFAISDYV FNTASLVYHE EGYLNFSITD DMIPPDSNIR LTTKSRPFV PRLARLYPNM NLELQGSVPS
APLLNFSPGN LSVDPYMEID AFVLLPSSSK EPVFRLSVAT NVSATLTFNT SKITGFLKPG KVKVELKESK VGLFNAELLE
ALLNYYILNT FYPKFNDKLA EGFPLPLLKR VQLYDLGLQI HKDFLFLGAN VQYMRV<HHHH HH>

General References

J. Weiss, 2003, Biochemical Society Transactions: Volume 31, part 4: 785-790.
Hubacek J.A., et al., 1997, Biochem. Biophys. Res. Commun. 236:427-430.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain