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Datasheet for ABIN5663347 LBP Protein (His tag)

Overview

Quantity:	10 µg
Target:	LBP
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LBP protein is labelled with His tag.
Application:	ELISA, Agonist (Agon)

Product Details

Sequence:	MGALARALPS ILLALLLTST PEALGANPGL VARITDKGLQ YAAQEGLLAL QSELLRITLP DFTGDLRIPH VGRGRYEFHS LNIHSCELLH SALRPVPGQG LSLISDSSI RVQGRWKVRK SFFKLQGSFD VSVKGISISV NLLLGSESSG RPTVTASSCS SDIADVEVDM SGD LGWLLNL FHNQIESKFQ KVLESRICEM IQKSVSSDLQ PYLQTLPTTT EIDSFADIDY SLVEAPRATA QMLEV MFKGE IFHRNHRSPV FSPGNLSVDP YMEIDAFVLL PSSSKEPVFR LSVATNVSAT LTFNTSKITG FSITDDMIPP DSNIRLTTKS FRPFVPRLAR LYPNMNLELQ GSVPSAPLLN TLAAVMSLP EEHNKVMYFA ISDYVFNTAS LVYHEEGYLN FLKPGKVKVE LKESKVGLFN AELLEALLNY YILNTFY PKF NDKLAEGFPL PLLKRVQLYD LGLQIHKDFL FLGANVQYMR VHHHHHHH
Characteristics:	Attention: His-tag at the c-terminal end of the LBP has no protease site and is not to split off
Purification:	Affinity chromatography by His-Tag
Purity:	>95 % by SDS-PAGE

Product Details

Endotoxin Level: <1 EU/μg of recombinant human LBP as determined by LAL method

Biological Activity Comment: Don't activate cells in MNC culture.

Target Details

Target: LBP

Alternative Name: LBP ([LBP Products](#))

Background: Background: Natural LBP is a 58KD glycoprotein produced in liver. It binds at lipid A of LPS with high affinity (10-9M) and reduced the cellular LPS effects at CD14+ cells (IL1β, IL6, TNFα). It acts as opsonin for GRAM negative cells, LPS, neutrophils and granulocytes. LBP binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria. The LBP/LPS complex seems to interact with the CD14 receptor. Recombinant LBP produced from mouse LBP transfected CHO-cells in serum free medium. For transfection, we have cloned complete mouse LBP cDNA into expression vector pPOL-DHFR. Before transfection, the complete mouse LBP cDNA amplified by PCR and cloned into expression vector p-POL-DHFR. Sequence similarities belongs to the BPI/LBP/Plunc superfamily and BPI/LBP family.

Molecular Weight: ~58kDa

Gene ID: 3929

NCBI Accession: [NP_004130](#)

UniProt: [P18428](#)

Pathways: [TLR Signaling](#), [Activation of Innate immune Response](#), [Cellular Response to Molecule of Bacterial Origin](#), [Positive Regulation of Immune Effector Process](#), [Toll-Like Receptors Cascades](#), [Monocarboxylic Acid Catabolic Process](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with 40 μL sterile distilled water to a concentration of 0.25 mg/mL

Handling

Concentration:	0.25 mg/mL
Buffer:	sterile-filtered phosphate balanced salt solution, pH 7.4
Preservative:	Without preservative
Storage:	RT,-20 °C,-80 °C
Storage Comment:	<p>Storage: -20°C or -70°C</p> <p>Storage/Stability: Long time -80oC. Short time storage is possible at 40C or -20C .The lyophilized product thought stable room temperature up to 3 weeks, but is best stored desiccated at -70oC more than 1 year, at refrigerator about 10 months. Reconstituted protein should be used immediately or stored in undiluted working aliquots at -20oC. For long term storage it is recommended to add a carrier protein (o.1% BSA). Repeated freezing and thawing should be avoided!!!</p>
Expiry Date:	12 months