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Datasheet for ABIN1097062 LBP Protein (AA 26-481) (His tag)



Overview

Quantity:	50 µg
Target:	LBP
Protein Characteristics:	AA 26-481
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This LBP protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Lipopolysaccharide-Binding Protein/LBP (C-6His)
Sequence:	ANPGLVARIT DKGLQYAAQE GLLALQSELL RITLPDFTGD LRIPHVGRGR YEFHSLNIHS
	CELLHSALRP VPGQGLSLSI SDSSIRVQGR WKVRKSFFKL QGSFDVSVKG ISISVNLLLG
	SESSGRPTVT ASSCSSDIAD VEVDMSGDLG WLLNLFHNQI ESKFQKVLES RICEMIQKSV
	SSDLQPYLQT LPVTTEIDSF ADIDYSLVEA PRATAQMLEV MFKGEIFHRN HRSPVTLLAA
	VMSLPEEHNK MVYFAISDYV FNTASLVYHE EGYLNFSITD DMIPPDSNIR LTTKSFRPFV
	PRLARLYPNM NLELQGSVPS APLLNFSPGN LSVDPYMEID AFVLLPSSSK EPVFRLSVAT
	NVSATLTFNT SKITGFLKPG KVKVELKESK VGLFNAELLE ALLNYYILNT FYPKFNDKLA
	EGFPLPLLKR VQLYDLGLQI HKDFLFLGAN VQYMRVVDHH HHHH
Characteristics:	Recombinant Human Lipopolysaccharide-Binding Protein/LBP produced by transfected humar
	cells is a secreted protein with sequence (Ala26-Val481) of human LBP fused with a
	polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

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Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/ μ g (1 IEU/ μ g) as determined by LAL test

Target Details

Target:	LBP
Alternative Name:	Ibp (LBP Products)
Sub Type:	Fusionprotein
Background:	 Lipopolysaccharide binding protein (LBP) is a plasma protein, belongs to a member of structurally and functionally related proteins which includes bactericidal permeability-increasing protein (BPI), plasma cholesteryl ester transfer protein (CETP) and phospholipid transfer protein (PLTP). It is involved in the acute-phase immunologic response to gram-negative bacterial infections. In cooperation with BPI. LBP binds LPS and interacts with the CD14 receptor, most likely playing a role in regulating LPS-dependent monocyte responses. Studies suggest that LBP is necessary for the rapid acute-phase response to LPS but not for the clearance of LPS from circulation. Finally, t The LBP gene is found on chromosome 20, directly downstream of the BPI gene. Alternative Names: Lipopolysaccharide-Binding Protein, LBP
Molecular Weight:	51.95 kDa
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

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g/mL}.$
	Dissolve the lyophilized protein in ddH2O.
	Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Handling

Buffer:	Lyophilized from a 0.2 μ m filtered solution of 20 mM PB, 150 mM NaCl, 1 mM EDTA, pH 7.2.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months