9051 Mira Mesa Blvd, #910094
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Tel: 760-390-3989

LBP Human

Lipopolysaccaride Human Recombinant
RCP1228

Product Overview

Name	LBP Human
Description	
Lipopolysaccaride Human Recombinant	
Accession (Primary)	P18428
Synonyms	
Lipopolysaccharide-binding protein, LBP, MGC22233.	
Introduction	
Lipopolysaccharides (LPS) are a type of glycolipids on the outer cell wall of Gram-negative bacteria. Lipopolysaccharide binding protein (aka LBP) is a plasma protein which facilitates the diffusion of bacterial LPS (endotoxin). LBP is involved in the acute-phase immunologic response to gram-negative bacterial infections. In cooperation with bactericidal permeability-increasing protein (BPI), LBP binds LPS and interacts with the CD14 receptor, most likely playing a role in regulating LPS-dependent monocyte responses. LBP belongs to a family of structurally and functionally related proteins, including BPI, plasma cholesteryl ester transfer protein (CETP), and phospholipid transfer protein (PLTP). The LBP gene is found on chromosome 20, directly downstream of the BPI gene. LBP catalyzes the transfer of LPS monomers from LPS aggregates to HDL particles, to phospholipid bilayers, and to a binding site on soluble CD14 (sCD14). sCD14 is capable of speeding up the transfer by receiving an LPS monomer from an LPS aggregate, and then yielding it to an HDL particle, therefore acting as a soluble "shuttle" for an insoluble lipid.	
Source	
Chinese Hamster Ovarian Cells (CHO).	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Recombinant Human LBP was lyophilized from a protein solution (0.3mg/ml) containing phosphate-buffered saline, pH 7.2.	
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.	

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Please prevent freeze-thaw cycles.

Biological Activity

Up to 0.2 µg/ ml LBP mediates binding of FITC-LPS (0.5 µg/ml) to CD14+CHO transfectants (FACS).

Solubility

Every 10 µg of recombinant human LBP should be reconstituted using 33 µl of sterile H 2 O. The solution can be than diluted with phosphate-buffered saline or other buffers.

Precautions

LBP Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P18428)