

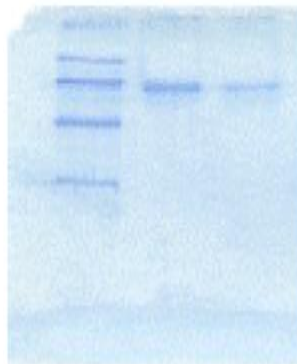
LBP

Recombinant Human Lipopolysaccharide Binding Protein His-Tagged Affinity Purified

Catalog No.	CRL701	Quantity:	10 µg
Alternate Names:	LPS-Binding Protein		
Gene ID:	3929		
Description:	Recombinant human LBP His-Tagged was 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. Natural LBP is a glycoprotein produced in liver. It binds at lipid A of LPS with high affinity (10^{-9} M) and reduces the cellular LPS effects at CD14 ⁺ cells (IL1-beta, IL6, TNF-alpha). It acts as opsonin for GRAM negative cells, LPS, neutrophiles, and granulocytes.		
Source:	CHO cells		
Molecular Weight:	58 kDa		
Formulation:	Lyophilized from a sterile filtered solution containing PBS, pH 7.2		
Purity:	90-95%		
Endotoxin Level:	< 0.03 ng/ml of protein as determined by LAL test after heating for 10 minutes at 75°C. No TNF- and IL6-stimulation in blood cell culture by itself.		
Purification:	Purified by His tag with metal affinity purification with Talon and controlled by SDS-PAGE. Note: His tag has no protease site and cannot be split off.		
Reconstitution:	Centrifuge vial prior to opening. Add 40 µl sterile distilled water to the vial to fully solubilize the protein to a concentration of 0.25 mg/ml.		
Applications:	ELISA FACS		
Application Notes:	ELISA: can be used as coating antigen in a direct ELISA. This protein was used for detection and quantification of human LBP antibodies. FACS: Up to 0.2 µg/ml LBP mediates binding of FITC-LPS (0.5 µg/ml) to CD14 ⁺ CHO transfectants in FACS. The optimal concentration should be determined by the user for each specific application.		
Storage & Stability:	Stable for 4 weeks at room temperature, 10 months at 2-4°C, and for 1 year at -80°C. The LBP will become precipitate if exposed to rapid changes of pH or temperature. The best working temperature is ice bath. Avoid repeated freeze-thaw cycles.		



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