Recombinant Human LBP Protein (His Tag)

Catalog No. PKSH033414

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description		
Synonyms	Lipopolysaccharide-Binding Protein;LBP;BPIFD2	
Species	Human	
Expression Host	HEK293 Cells	
Sequence	Ala26-Val481	
Accession	P18428	
Calculated Molecular Weight	52.0 kDa	
Observed molecular weight	64 kDa	
Tag	C-His	
Bioactivity	Not validated for activity	
Properties		
Purity	> 95 % as determined by reducing SDS-PAGE.	
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.	
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, 1mM EDTA, pH 8.0. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.	
Reconstitution	Please refer to the printed manual for detailed information.	
Data		

kDa 120 90 60	МК	R
40	-	
30	-	
20	-	
14	-	

> 95 % as determined by reducing SDS-PAGE.

Background

Lipopolysaccharide binding protein (LBP) is a plasma protein, belongs to a member of structurally and functionally

For Research Use Only

Toll-free: 1-888-852-8623 Web: <u>www.elabscience.com</u>

Elabscience®

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 gramnegative 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.