Recombinant Human Lipopolysaccharide-binding protein (LBP)

Product Code	CSB-MP012775HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P18428
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	ANPGL VARITDKGLQ YAAQEGLLAL QSELLRITLP DFTGDLRIPH VGRGRYEFHS LNIHSCELLH SALRPVPGQG LSLSISDSSI RVQGRWKVRK SFFKLQGSFD VSVKGISISV NLLLGSESSG RPTVTASSCS SDIADVEVDM SGDLGWLLNL FHNQIESKFQ KVLESRICEM IQKSVSSDLQ PYLQTLPVTT EIDSFADIDY SLVEAPRATA QMLEVMFKGE IFHRNHRSPV TLLAAVMSLP EEHNKMVYFA ISDYVFNTAS LVYHEEGYLN FSITDDMIPP DSNIRLTTKS FRPFVPRLAR LYPNMNLELQ GSVPSAPLLN FSPGNLSVDP YMEIDAFVLL PSSSKEPVFR LSVATNVSAT LTFNTSKITG FLKPGKVKVE LKESKVGLFN AELLEALLNY YILNTFYPKF NDKLAEGFPL PLLKRVQLYD LGLQIHKDFL FLGANVQYMR V
Source	Mammalian cell
Target Names	LBP
Protein Names	Recommended name: Lipopolysaccharide-binding protein Short name= LBP
Expression Region	26-481
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein is involved in the acute-phase immunologic response to gram-negative bacterial infections. Gram-negative bacteria contain a glycolipid, lipopolysaccharide (LPS), on their outer cell wall. Together with bactericidal permeability-increasing protein (BPI), the encoded protein binds LPS and interacts with the CD14 receptor, probably playing a role in regulating LPS-dependent monocyte responses. Studies in mice suggest that the encoded protein is necessary for the rapid acute-phase response to LPS but not for the clearance of LPS from circulation. This protein is part of a family of structurally and functionally related proteins, including BPI, plasma cholesteryl ester transfer protein (CETP), and phospholipid transfer protein (PLTP). Finally, this gene is found on chromosome 20, immediately downstream of the BPI gene.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a

	concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.