Lipopolysaccharide-Binding Protein (LBP) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lipopolysaccharide-binding protein (LBP), Recombinant Protein
Full Product Name	Recombinant Bovine Lipopolysaccharide-binding protein (LBP)
Product Gene Name	LBP recombinant protein
Product Synonym Gene Name	LBP
Sequence	ANPGLVVRIT DQGLEYVAQE ELLALQSKLH KVTLPDFNGD VRIKHFGSVD YRFHSLNIQS CKLLGSALKL LPNQGLHFSI SDSFIQVTGD WKVRKRILRL DGSFDVKVKG ITISVNLLLD SEPSGRPKVA VSSCSSHIRD VEVHISGDLG WLLNLFHNQI ESRFRRVLES KICEIIEDSV TSELQPYLQT LPVTTEIDHL AGLDYSLMGA PQATAQMLDV MFKGEIFSRD DRFPVAFLAP VMNLPEEHSR MVYFAISDYA FNTASLVYHK AGFLNFTITD DVIPPDSSIR QNTKSFRAFV PRIARLYPNT NLELQGAVIS APCLNFSPGN LSTAAQMEIE AFVLLPNSVK EPVFRLSVAT NVSAMLTFNT SKITGFLEPG KIQVELKESK VGRFNVELLE ALLNYYLLNN FYPKVNDKLA EGFPLPLLRK IQLYDPILQI HKDFLFLGTN VRYLRV
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	53,698 Da
Sequence Positions	26-481, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q2TBI0
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for LBP recombinant protein	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.
Other Notes	Small volumes of LBP recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LBP purchase	MBS1349336 is a recombinant protein targeting LBP. Also known as Recombinant Bovine Lipopolysaccharide-binding protein (LBP). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LBP. It may not necessarily be applicable to this product.

NCBI GI #	84579853
NCBI GeneID	512242
NCBI Accession #	NP_001033763.1
UniProt Primary Accession #	Q2TBI0
UniProt Related Accession #	Q2TBI0
GenBank Nucleotide #	NM_001038674.2
NCBI Official Full Name	lipopolysaccharide-binding protein
NCBI Official Symbol	LBP
UniProt Protein Name	Lipopolysaccharide-binding protein
Protein Family	Lipopolysaccharide-binding protein
UniProt Gene Name	LBP
UniProt Synonym Gene Names	LBP
NCBI Protein Information	lipopolysaccharide-binding protein
UniProt Comments for LBP	Plays a role in the innate immune response. Binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria. Acts as an affinity enhancer for CD14, facilitating its association with LPS. Promotes the release of cytokines in response to bacterial lipopolysaccharide.
Research Articles on LBP	**1.** Our study provides an overview of the gene expression profile between wild LBP and mutant LBP on the LPS-induced inflammatory response of bovine mammary epithelial cells , which will lead to further understanding of the potential effects of LBP mutations on bovine mammary glands.
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