Lipopolysaccharide-Binding Protein (LBP) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Lipopolysaccharide-binding protein (Lbp), Recombinant Protein
Full Product Name	Recombinant Rat Lipopolysaccharide-binding protein (Lbp)
Product Gene Name	Lbp recombinant protein
Product Synonym Gene Name	Lbp
Sequence	VNPAMVVRIT DKGLEYAAKE GLLSLQRELY KITLPDFSGD FKIKAVGRGQ YEFHSLEIQS CQLRGSSLKP LPGRGLSLSI SDSSISVRGK WKVRRSFVKL HGSFDLDVKS VTISVDLLLG VDPSERPTVT ASGCSNRIRD LELHVSGNVG WLLNLFHNQI ESKLQKVLES KICEMIQKSV TSDLQPYLQT LPVTADIDTI LGIDYSLVAA PQAKAQTLDV MFKGEIFNRN HRSPVTTPTP TMSLPEDSKQ MVYFAISDQA FNIATRVYHQ AGYLNFTITD DMLPPDSNIR LNTKAFRPFT PLITRKYPDM NLELLGTVVS APLLNVSPGN LSLAPQMEIE GFVILPSSAR ESVFRLGVVT NVFVSLTFDN SKVTGMLHPE KAQVRLIESK VGMFNVNLFQ AFLNYYLLNS LYPDVNDELA KGFPLPLPRR IKLHDLDFQI HKNFLYLGAN VQYMRV
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	53,600 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 Q63313
Species	Rat
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	MBS1409233 is a recombinant protein targeting Lbp. Also known as Recombinant Rat 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 #	2497617
NCBI GeneID	29469
NCBI Accession #	Q63313.1
UniProt Primary Accession #	Q63313
UniProt Related Accession #	Q63313
NCBI Official Full Name	Lipopolysaccharide-binding protein
NCBI Official Synonym Full Names	lipopolysaccharide binding protein
NCBI Official Symbol	Lbp
NCBI Official Synonym Symbols	Bpifd2
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
NCBI Summary for Lbp	binds lipopolysaccharide on outer membrane of gram negative bacteria; involved in immune response [RGD, Feb 2006]
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.** LBP has a role in augmentation of the host's response in a rat sepsis model via G-CSF
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/lipopolysaccharide-binding-protein-lbp/1409233