HLA Class I Histocompatibility Antigen, B-73 Alpha Chain (HLA-B) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	HLA class I histocompatibility antigen, B-73 alpha chain (HLA-B), Recombinant Protein
Full Product Name	Recombinant Human HLA class I histocompatibility antigen, B-73 alpha chain (HLA-B), partial
Product Gene Name	HLA-B recombinant protein
Product Synonym Gene Name	HLA-B
Sequence	GSHSMR YFHTSVSRPG RGEPRFITVG YVDDTQFVRF DSDAASPREE PRAPWIEQEG PEYWDRNTQI CKAKAQTDRV GLRNLRGYYN QSEDGSHTWQ TMYGCDMGPD GRLLRGYNQF AYDGKDYIAL NEDLRSWTAA DTAAQITQRK WEAARVAEQL RAYLEGECVE WLRRHLENGK ETLQRADPPK THVTHHPISD HEATLRCWAL GFYPAEITLT WQRDGEDQTQ DTELVETRPA GDGTFQKWAA VVVPSGQEQR YTCHVQHEGL QEPCTLRWKP SSQSTIPI
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	40,435 Da
Sequence Positions	25-308
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.
OMIM	142830
3D Structure	ModBase 3D Structure for Q31612
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HLA-B recombinant protein	MBS1314255 is a recombinant protein targeting HLA-B. Also known as Recombinant Human HLA class I histocompatibility antigen, B-73 alpha chain (HLA-B), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HLA-B 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.

ADDITIONAL DETAILS

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

NCBI GI #	34222512
NCBI GeneID	3106

NCBI Accession #	Q31612.1
UniProt Primary Accession #	Q31612
UniProt Secondary Accession #	G3GN01
UniProt Related Accession #	P01889; P03989; P10319; P18463; P18464; P18465; P30460; P30461; P30462; P30464
NCBI Official Full Name	HLA class I histocompatibility antigen, B-73 alpha chain
NCBI Official Synonym Full Names	major histocompatibility complex, class I, B
NCBI Official Symbol	HLA-B
NCBI Official Synonym Symbols	AS; HLAB; B-4901
UniProt Protein Name	HLA class I histocompatibility antigen, B-73 alpha chain
UniProt Synonym Protein Names	MHC class I antigen B*73
Protein Family	HLA class I histocompatibility antigen
UniProt Gene Name	HLA-B
UniProt Synonym Gene Names	HLAB
NCBI Protein Information	major histocompatibility complex, class I, B
NCBI Summary for HLA-B	HLA-B belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. Class I molecules play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon 1 encodes the leader peptide, exon 2 and 3 encode the alpha1 and alpha2 domains, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region and exons 6 and 7 encode the cytoplasmic tail. Polymorphisms within exon 2 and exon 3 are responsible for the peptide binding specificity of each class one molecule. Typing for these polymorphisms is routinely done for bone marrow and kidney transplantation. Hundreds of HLA-B alleles have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for HLA-B	Involved in the presentation of foreign antigens to the immune system.
Research Articles on HLA-B	**1.** The HLA-DRB1*15:01 allele was confirmed to be linked to multiple sclerosis disease in an Italy family.
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.
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