

Recombinant Human HLA-B protein, His-tagged

Cat. No. HLA-B-8392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HLA-B protein(NP_005505.2), fused to His-tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	25-309 aa
Description	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.
Form	Supplied as a 0.2 µm filtered solution in PBS, pH 7.4.
Molecular Mass	The protein has a calculated MW of 33.6 kDa.

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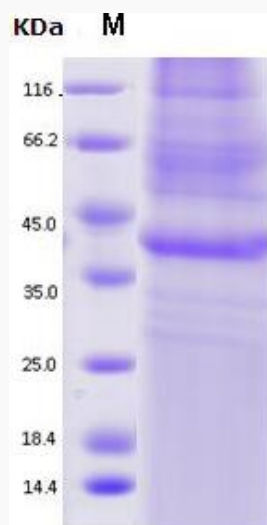
AA Sequence	HHHHHHGSHSMRYFYTSVSRPGRGEPFISVG YVDDTQFVRFDSDAASPREEPRA PWIEQEGPEYWDRNTQIYKAQAQTDRESLRNLRGYYNQSEAGSHTLQSMYGCDVG PDGRLLRGHDQYAYDGKDIALNEDLRSWTAADTAAQITQRKWEAAREAEQRRAYL EGECVEWLRRYLENGKDKLERADPPKTHVTHHPISDHEATLRCWALGFYP AEITLT WQRDGEDQTQDTELVETRPAGDRTFQKWA AVVVPSGEEQRYTCHVQHEGLPKPL TLRWEPSSTVPI
Purity	>75%, by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.5 mg/ml
GENE INFORMATION	
Gene Name	HLA-B major histocompatibility complex, class I, B [Homo sapiens (human)]
Official Symbol	HLA-B
Synonyms	AS; HLAB; B-4901
Gene ID	3106
mRNA Refseq	NM_005514.8
Protein Refseq	NP_005505.2
MIM	142830
UniProt ID	P01889

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**SDS-PAGE of HLA-B-
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