

Recombinant Human HLA-B protein, His/T7-tagged

Cat. No. HLA-B-392H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HLA-B(aa 26-309) fused with His/T7 tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	26-309 a.a.
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.
Form	Lyophilized from PBS, pH 7.4, 5% trehalose, 0.01% sarcosyl
Molecular Mass	36.7 kDa
Purity	Greater than 95%
Storage	Store at +4 centigrade for up to 1 month, or aliquot and store at -80 centigrade for up to 12 months. Avoid repeat freeze-thaw cycles.

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Reconstitution Reconstitute in sterile PBS, pH 7.2-7.4.

GENE INFORMATION

Gene Name HLA-B major histocompatibility complex, class I, B [Homo sapiens]

Official Symbol HLA-B

Synonyms HLA-B; major histocompatibility complex, class I, B; ankylosing spondylitis , AS; lymphocyte antigen; MHC class I antigen SHCHA; MHC Class I HLA heavy chain; MHC class I antigen GN00104; leukocyte antigen class I-B; MHC HLA-B cell surface glycoprotein; MHC HLA-B transmembrane glycoprotein; MHC class I antigen HLA-B heavy chain; HLA class I histocompatibility antigen, B alpha chain; AS; HLAB; SPDA1; MGC111087;

Gene ID 3106

mRNA Refseq NM_005514

Protein Refseq NP_005505

MIM

UniProt ID P01889

Chromosome Location 6p21.3

Pathway Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen

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processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem;

Function

MHC class I receptor activity; receptor binding;

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