

Recombinant Human HLA-C Protein, His-tagged

Cat. No. HLA-C-242H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HLA-C(Ser48~Thr305) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Ser48~Thr305
Description	HLA-C 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 endoplasmic reticulum lumen. They are expressed in nearly all cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domain, 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.
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Molecular Mass	33.2kDa

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB. If bio-activity of the protein is needed, please check active protein
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in PBS or others

GENE INFORMATION

Gene Name	HLA-C major histocompatibility complex, class I, C [Homo sapiens]
Official Symbol	HLA-C
Synonyms	major histocompatibility complex, class I, C; 4933; Ensembl:ENSG00000204525; FLJ27082; HLA class I histocompatibility antigen, Cw-1 alpha chain;MHC class I antigen heavy chain HLA-C;human leukocyte antigen-C alpha chain;major histocompatibility antigen HLA-C;HLA class I histocompatibility antigen, C alpha chain; HLC-C; D6S204; PSORS1; HLA-JY3
Gene ID	3107

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mRNA Refseq	NM_001243042.1
Protein Refseq	NP_001229971.1
MIM	142840
UniProt ID	O19617

