

Recombinant Human major histocompatibility complex, class I, C, His-tagged

Cat. No. HLA-C-268H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA-C, 25-308aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	25-308 a.a.
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. Recombinant human HLA-C protien, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	34.9 kDa (307aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSCSHSMRY FDTAVSRPGR GEPRFISVGY VDDTQFVRFD SDAASPRGEP RAPWVEQEGP EYWDRETQKY KRQAQADRVS LRNLRGYYNQ SEDGSHTLQR MSGCDLGPDG RLLRGYDQSA YDGKDYIALN

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EDLRSWTAAD TAAQITQRKL EAARAAEQLR AYLEGTCVEW LRRYLENGKE
 TLQRAEPPKT HVTHHPLSDH EATLRCWALG FYPAEITLTW QRDGEDQTQD
 TELVETRPAG DGTFQKWA AV VVPSGQEQRY TCHMQHEGLQ EPLTLSWEPS
 SQPTIPI

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

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

mRNA Refseq NM_001243042.1

Protein Refseq NP_001229971.1

MIM 142840

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UniProt ID	O19617
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 processing and presentation, conserved biosystem; Antigen processing-Cross presentation, organism-specific biosystem;
Function	MHC class I receptor activity;

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