

Recombinant Human HLA-F, His-tagged

Cat. No. HLA-F-239H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HLA-F, 22-305aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	22-305aa
Description	HLA class I histocompatibility antigen, alpha chain F isoform 1 precursor, also known as HLA-F, is member of the MHC family that are specifically involved in the presentation of antigens to the T cell receptor. There are two classes of HLA antigens. HLA-F, belong to the Class I molecules. Class I molecules are expressed in nearly all cells and play a central role in the immune system by presenting peptides derived from the endoplasmic reticulum. Recombinant human HLA-F, 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	35.1 kDa (307aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MSGGSHSLRY FSTAVSRPGR GEPRYIAVEY VDDTQFLRFD SDAAIPRMEP REPWVEQEGP QYWEWTTGYA KANAQTDRVA LRNLLRRYNQ SEAGSHTLQG MNGCDMGPDG RLLRGYHQHA YDGKDYISLN

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EDLRSWTAAD TVAQITQRFY EAEYAAEFYR TYLEGECLEL LRRYLENGKE
 TLQRADPPKA HVAHHPISDH EATLRCWALG FYPAEITLTW QRDGEEQTQD
 TELVETRPAG DGTFQKWAAY VVPPGEEQRY TCHVQHEGLP QPLILRWEQS
 PQPTIPI

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 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

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

Official Symbol HLA-F

Synonyms HLA-F; major histocompatibility complex, class I, F; HLA class I histocompatibility antigen, alpha chain F; HLA F antigen; leukocyte antigen F; HLA class I molecule; MHC class Ib antigen; MHC class I antigen F; HLAF; CDA12; HLA-5.4; HLA-CDA12;

Gene ID 3134

mRNA Refseq NM_001098478

Protein Refseq NP_001091948

MIM 143110

UniProt ID P30511

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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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