

## AR51552PU-N

## Human HLA class I alpha F / HLA-F (22-305, His-tag) - Purified

### Alternate names:

CDA12, HLA F antigen, HLA class I histocompatibility antigen alpha chain F, HLA-5.4, HLAF, Leukocyte antigen F

### Quantity:

0.1 mg

### Concentration:

0.25 mg/ml (determined by Bradford assay)

### Background:

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.

### Uniprot ID:

[P30511](#)

### NCBI:

[NP\\_001091949](#)

### GeneID:

[3134](#)

### Species:

Human

### Source:

E. coli

### Format:

**State:** Liquid purified protein

**Purity:** >90% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT

### Description:

Recombinant Human HLA-F, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

#### AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSQSHSLRY FSTAVSRPGR GEPRYIAVEY VDDTQFLRF  
SDAAIPRMEP REPWVEQEGP QYWEWTTGYA KANAQTDRA LRNLLRRYNQ SEAGSHTLQG  
MNGCDMGPDG RLLRGYHQA YDGKDYISLN EDLRSWTAAD TVAQITQRFY EAEYAEFR  
TYLEGECLL LRRYLENGKE TLQRADPPKA HVAHHPISDH EATLRCWALG FYPAEITLTW  
QRDGEEQTQD TELVETRPAG DGTQKWAAY VVPPGEEQRY TCHVQHEGLP QPLILRWEQS  
PQPTIPI

**Molecular weight:** 35.1 kDa (307aa) confirmed by MALDI-TOF

### Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.  
Avoid repeated freezing and thawing.  
Shelf life: one year from despatch.

### General Readings:

1. Kropshofer H, Vogt AB, Thery C, Armandola EA, Li BC, Moldenhauer G, et al. A role for HLA-DO as a co-chaperone of HLA-DM in peptide loading of MHC class II molecules. EMBO J. 1998 Jun 1;17(11):2971-81. PubMed PMID: 9606180.
2. Brunet A, Samaan A, Deshaies F, Kindt TJ, Thibodeau J. Functional characterization of a lysosomal sorting motif in the cytoplasmic tail of HLA-DObeta. J Biol Chem. 2000 Nov 24;275(47):37062-71. PubMed PMID: 10964920.

Pictures:

