

Recombinant Full Length Human HLA-E Protein, C-Flag-tagged

Cat. No. HLA-E-268HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human HLA-E Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	HLA-E 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. HLA-E binds a restricted subset of peptides derived from the leader peptides of other class I molecules. 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 domains, 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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	37.8 kDa
AA Sequence	MVDGTL L L L L L S E A L A L T Q T W A G S H S L K Y F H T S V S R P G R G E P R F I S V G Y V D D T Q F V R F D N D A A S P R M V P R A P W M E Q E G S E Y W D R E T R S A R D T A Q I F R V N L R T L R G Y Y N Q S E A G S H T L Q W M H G C E L G P D G R F L R G Y E Q F A Y D G K D Y L T L N E D L R S W T A V D T A A Q I S E Q K S N D A S E A E H Q R A Y L E D T C V E W L H K Y L E K G K E T L L H L E P P K T H V T H H P I S D H E A T

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LRCWALGFYPAEITLTWQQDGEGHTQDTELVETRPAGDGTQKWAAVVPSGEEQ
 RYTC HVQHEGLPEPVTLRWKPASQPTIPIVGIIAGLVLLGSVVSGAVVAIVIWRKKSS
 GGKGGSYSKAEWSDSA
 QGSESHSLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus, Viral myocarditis
Full Length	Full L.

GENE INFORMATION

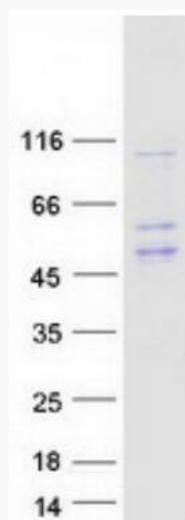
Gene Name	HLA-E major histocompatibility complex, class I, E [Homo sapiens (human)]
Official Symbol	HLA-E

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Synonyms	QA1; HLA-6.2
Gene ID	3133
mRNA Refseq	NM_005516.6
Protein Refseq	NP_005507.3
MIM	143010
UniProt ID	P13747



Coomassie blue staining of purified HLA-E protein.