

Recombinant Full Length Human HLA-C Protein, GST-tagged

Cat. No. HLA-C-3560HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HLA-C full-length ORF (1 a.a. - 336 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	336 amino acids
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. Over one hundred HLA-C alleles have been described [provided by RefSeq
Molecular Mass	63.8 kDa
AA Sequence	MRVMAPRALLLLSGGLALTETWACSHSMRYFDTAAQITQRKLEASPRGEPAPWV

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EQEGPEYWDRETQNYKRQAQADRVSLRNLRGYYNQSEDGSHTLQRMYGCDLGPD
GRLLRGYDQSAYDQKDYIALNEDLRSWTAADTAAQITQQLRAYLEGTCVEWLRRL
ENGKETLQRAEPPKTHVTHHPLSDHEATLRCWAPGFYPAEITLTWQRDGEDQTQD
TELVETRPAGDGTQKWAQVAVVPSGQEQRYTCHMQHEGLQGPTLSWEPSSQPTI
PIMGIVAGLAVLVVLAVLGAVVTAMMCRRKSSGGKGGSCSQAACNSAQGSDESLI
TCKA

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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
Protein Refseq	NP_001229971
MIM	142840
UniProt ID	O19617

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