

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

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

## SPECIFICATION

<b>Product Overview</b>	Human HLA-C full-length ORF (1 a.a. - 336 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	336 amino acids
<b>Description</b>	<p>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</p>
<b>Molecular Mass</b>	63.8 kDa
<b>AA Sequence</b>	MRVMAPRALLLLLSGGLALTETWACSHSMRYFDTAAQITQRKLEASPRGEPRAWV

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EQEGPEYWDRETQNYKRQAQADRVSLRNLRGYYNQSEDGSHTLQRMYGCDLGPD  
 GRLLRGYDQSAVDGKDYIALNEDLRSWTAADTAAQITQQLRAYLEGTCVEWLRRL  
 ENKETLQRAEPPKTHVTHHPLSDHEATLRCWAPGFYPAEITLTWQRDGEDQTQD  
 TELVETRPAGDGTGFQKWAAVVVPSGQEQRYSCHMQHEGLQGPLTSLWEPSSQPTI  
 PIMGIVAGLAVLVVLAVLGAVVTAMMCRRKSSGGKGGSCSQAACNSAAGSDESLI  
 TCKA

<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	HLA-C major histocompatibility complex, class I, C [ Homo sapiens ]
<b>Official Symbol</b>	HLA-C
<b>Synonyms</b>	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
<b>Gene ID</b>	3107



<b>mRNA Refseq</b>	NM_001243042
<b>Protein Refseq</b>	NP_001229971
<b>MIM</b>	142840
<b>UniProt ID</b>	O19617

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