

Recombinant Human HLA-G protein, GST-tagged

Cat. No. HLA-G-27H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HLA-G(1 a.a. - 338 a.a.) fused with GST tag at N-terminal was expressed in Wheat germ.
Species	Human
Source	Wheat Germ
ProteinLength	1-338 a.a.
Description	HLA-G 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-G is expressed on fetal derived placental 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 exon 6 encodes the cytoplasmic tail.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	63.69 kDa
AA Sequence	MVVMAPRTLFLLLSGALTLTETWAGSHSMRYFSAAVSRPSRGEPRFIAMGYVDDTQ FVRFDSDSACPRMEPRAPW VEREGPEYWEEETRNTKAHAQTDRMNLQTLRGYYN QSEASSHTLQWMIGCDLGSDGRLLRGYEQYAYDGKDYAL NEDLRSWTAADTAAQ ISKRKCEAANVAEQRRAYLEGTCVEWLHRYLENGKEMLQRADPPKTHVTHHPVFDY

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EATL RCWALGFYPAEIILTWQRDGEDQTQDVELVETKPAGDGTTFQKWAAVVPSG
EEQRYTCHVQHEGLPEPLMLRWKQ SSLPTIPIMGIVAGLVVLAAVVTGAAVA AVLW
RKKSSD

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 -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name

HLA-G major histocompatibility complex, class I, G [Homo sapiens]

Official Symbol

HLA-G

Synonyms

HLA-G; major histocompatibility complex, class I, G; HLA G histocompatibility antigen, class I, G; HLA class I histocompatibility antigen, alpha chain G; b2 microglobulin; HLA G antigen; HLA class I molecule; MHC class I antigen G; HLA-G histocompatibility antigen, class I, G; MHC-G;

Gene ID

3135

mRNA Refseq

NM_002127

Protein Refseq

NP_002118

MIM

142871

UniProt ID

P17693

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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; protein homodimerization activity; receptor binding;

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