

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

Cat. No. HLA-G-651HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HLA-G(1 a.a. - 338 a.a.) fused with GST tag at N-terminal was expressed in Wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	338 amino acids
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	MVVMAPRTLFLLLSGALTLTETWAGSHSMRYFSAAVSRPSRGEPRFIAMGYVDDTQFVRFDSDSACPRMEPRAPWVEREGPEYWEEETRNKAHAQTDRMNLQTLRGYYNQSEASSHTLQWMIGCDLGSDGRLLRGYEQYAYDGKDYLLNEDLRSWTAA DTAAQISKRKCEANVAEQR RAYLEGTCVEWLHRYLENGK

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EMLQRADPPK THVTHHPVFD YEATLRCWAL GFYPAEIILT WQRDGEDQTQ
 DVELVETKPA GDGTFQKWAA VVVPSGEEQR YTCHVQHEGL PEPLMLRWKQ
 SSLPTIPI MG IVAGLVVLA A VVTGAAVA AV LWRKKSSD

Applications

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

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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