

## Active Recombinant Human HLA-G Protein, Myc/DDK-tagged

Cat. No. HLA-G-001H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant protein of human major histocompatibility complex, class I, G (HLA-G) with a C-Myc/DDK tag was expressed in HEK293T.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Bio-activity</b>	Cell treatment
<b>Molecular Mass</b>	38.3 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

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**GENE INFORMATION**

<b>Gene Name</b>	HLA-G major histocompatibility complex, class I, G [ Homo sapiens (human) ]
<b>Official Symbol</b>	HLA-G
<b>Synonyms</b>	HLA-G; major histocompatibility complex, class I, G; MHC-G; HLA class I histocompatibility antigen, alpha chain G; HLA G antigen; HLA-G histocompatibility antigen, class I, G; MHC class I antigen G; MHC class Ib antigen; b2 microglobulin; mutant MHC class I antigen; mutant MHC class Ib antigen
<b>Gene ID</b>	3135
<b>mRNA Refseq</b>	NM_002127
<b>Protein Refseq</b>	NP_002118
<b>MIM</b>	142871
<b>UniProt ID</b>	P17693

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