

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| <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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