

Recombinant Human HLA-G protein

Cat. No. HLA-G-39H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HLA-G protein (25-338aa) was fused to 6xHis/SUMO-tag at the N-terminus and expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	25-338 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	Liquid or Lyophilized powder. If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Molecular Mass	51.6 kDa
AA Sequence	GSHSMRYFSAAVSRPGRGEPFIAMGYVDDTQFVRFSDSDSACPRMEPRAPWVEQ EGPEYWEEETRNTKAHAQTDRMNLQTLRGYYNQSEASSHTLQWMIGCDLGSDGR

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LLRGYEQYAYDGGKDYLLALNEDLRSWTAADTAAQISKRKCEANVAEQRRAYLEGTC
 VEWLHRYLENGKEMLRADPPKTHVTHHPVFDYEATLRCWALGFYPAEIILTWQRD
 GEDQTQDVELVETRPAGDGTFFQKWAAVVVPSGEEQRYTCHVQHEGLPEPLMLRW
 KQSSLPTIPIMGIVAGLVVLAAVVTGAAVA AVLWRKKSSD

Endotoxin <1.0 EU per 1g (determined by the LAL method).

Purity Greater than 90% as determined by SDS-PAGE.

Storage Store at -20 centigrade upon receipt, aliquoting is necessary for mutiple use. Avoid repeated freeze-thaw cycles.

Expiry The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20/-80 centigrade. The shelf life of lyophilized form is 12 months at -20/-80 centigrade.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name HLA-G

Official Symbol HLA-G

Synonyms MHC-G

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Gene ID	3135
mRNA Refseq	NM_001363567.1
Protein Refseq	NP_001350496.1
MIM	142871
UniProt ID	P17693

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