

## Product datasheet for **TP305216**

### HLA-G (HLA-G) (NM\_002127) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human major histocompatibility complex, class I, G (HLA-G), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA	>RC205216 protein sequence
Clone or AA Sequence:	Red=Cloning site Green=Tags(s)

MVVMAPRTLFLLLSGALTLTETWAGSHSMRYFSAAVSRPSRGEPRIAMGYVDDTQFVRFDSDSACPRME  
PRAPWVEREGPEYWEEETRNTKAHAQTDRMNLQTLRGYYNQSEASHTLQWMIGCDLGSGRLLRGYEQY  
AYDGKDYALNEDLRSWTAADTAAQISKRKCEANVAEQRRAYLEGTCVEWLHRYLENGKEMLRADPPK  
THVTHHPVFDYEATLRCWALGFYPAEILTWQRDGEDQTQDVELVETKPAAGDTFQKWAADVVPSEGEQR  
YTCHVQHEGLPEPLMLRWKQSSLPTIPIMGIVAGLVVLAAVVTGAAVAVALWRKKSSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

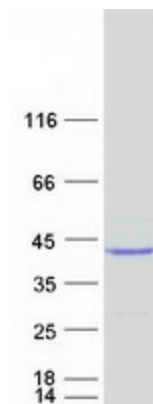
Tag:	C-Myc/DDK
Predicted MW:	38.3 kDa
Concentration:	>0.1 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Cell treatment (PMID: <a href="#">29985558</a> )
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_002118</a>



[View online »](#)

<b>Locus ID:</b>	3135
<b>UniProt ID:</b>	<a href="#">P17693</a> , <a href="#">Q6DU14</a>
<b>RefSeq Size:</b>	1578
<b>Cytogenetics:</b>	6p22.1
<b>RefSeq ORF:</b>	1014
<b>Synonyms:</b>	MHC-G
<b>Summary:</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. [provided by RefSeq, Jul 2008]
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus, Viral myocarditis

### Product images:



Coomassie blue staining of purified HLA-G protein (Cat# TP305216). The protein was produced from HEK293T cells transfected with HLA-G cDNA clone (Cat# [RC205216]) using MegaTran 2.0 (Cat# [TT210002]).