

# Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer Protein

Cat. No. HLG-HM41C

## Description

<b>Source</b>	Recombinant Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305(HLA-G), Ile21-Met119(B2M) and RIIPRHLQL peptide.
<b>Accession</b>	P17693-1(HLA-G)&P61769(B2M)&RIIPRHLQL
<b>Molecular Weight</b>	The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 51-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

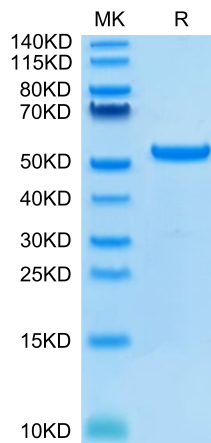
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

HLA-G is a molecule that was first known to confer protection to the fetus from destruction by the immune system of its mother, thus critically contributing to fetal-maternal tolerance. The first functional finding constituted the basis for HLA-G research and can be summarized as such: HLA-G, membrane-bound or soluble, strongly binds its inhibitory receptors on immune cells (NK, T, B, monocytes/dendritic cells), inhibits the functions of these effectors, and so induces immune inhibition.

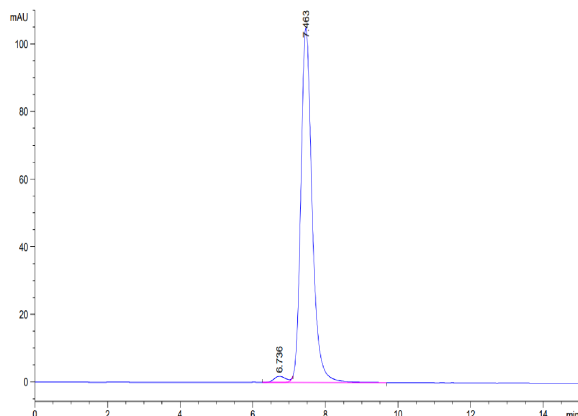
## Assay Data

### Bis-Tris PAGE



Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



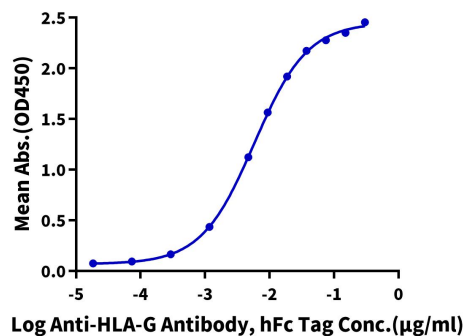
The purity of Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer, His Tag ELISA

0.1µg Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer, His Tag Per Well



Immobilized Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-HLA-G Antibody, hFc Tag with the EC50 of 5.8ng/ml determined by ELISA.