

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

Cat. No. HLG-HM41C

Description

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|-------------------------|--|
| Source | 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. |
| Accession | P17693-1(HLA-G)&P61769(B2M)&RIIPRHLQL |
| Molecular Weight | The protein has a predicted MW of 50.5 kDa. Due to glycosylation, the protein migrates to 51-60 kDa based on Tris-Bis PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC |

Formulation and Storage

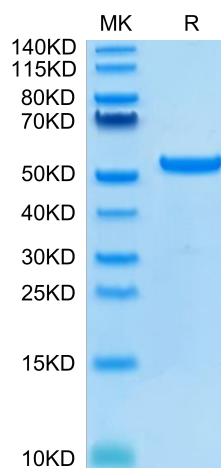
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days 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

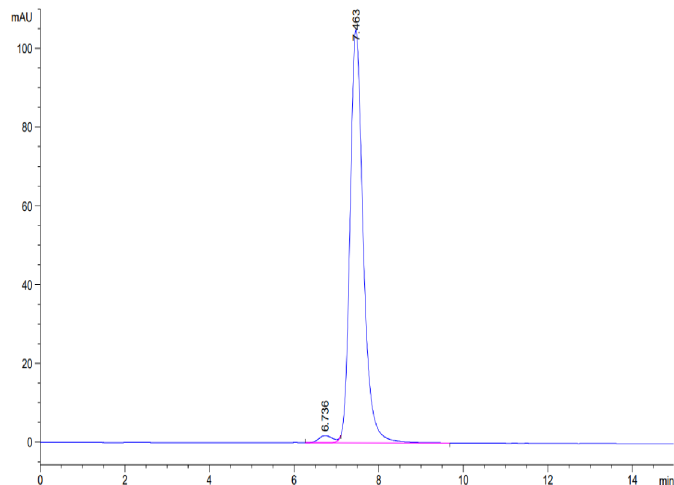
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

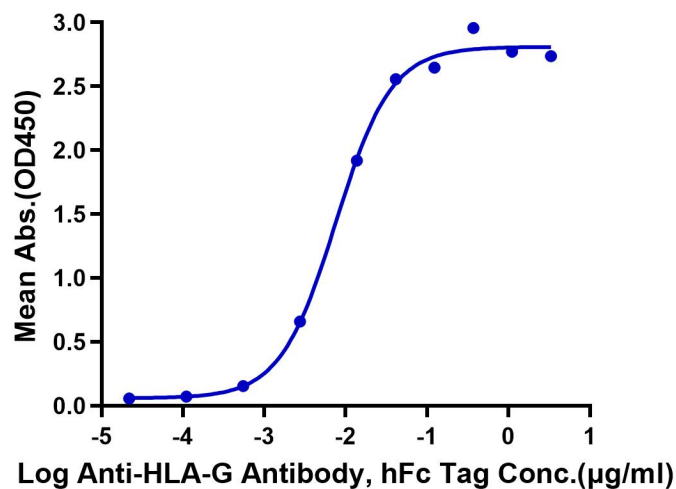


The purity of Human HLA-G&B2M&Peptide (RIIPRHLQL) Monomer is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human HLA-G, His Tag ELISA

0.1µg Human HLA-G, 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 7.6ng/ml determined by ELISA.