# Human HLA-G Free Heavy Chain Protein

**Cat. No.** HLG-HE41F

## Description

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|---|---|
| **Source** | Recombinant Human HLA-G Free Heavy Chain Protein is expressed from E.coli with His tag and Avi tag at the C-Terminus. |
| | It contains Gly25-Thr305(C66S). |
| **Accession** | P17693-1 |
| **Molecular Weight** | The protein has a predicted MW of 35.5 kDa. The protein migrates to 36-40 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |

## Formulation and Storage

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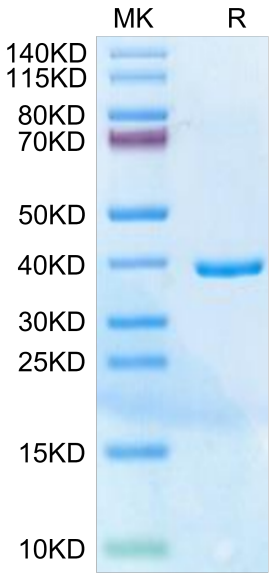
| **Formulation** | Supplied as 0.22μm filtered solution in 20mM Tris, 500mM NaCl, 20% Glycerol (pH 8.0). |
| **Storage** | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## 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 Free heavy chain on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**ELISA Data**

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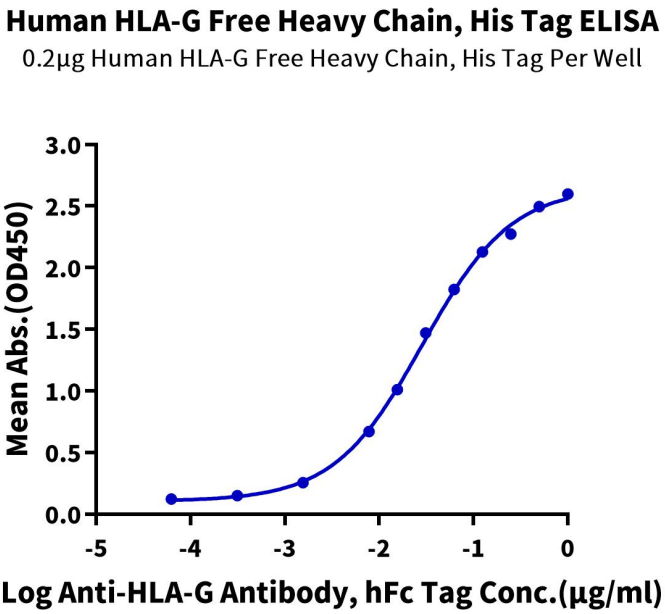
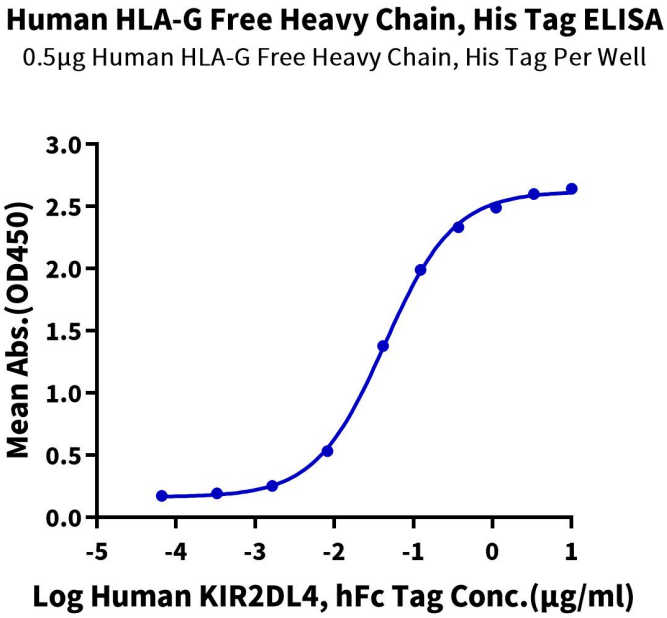
## Assay Data




Immobilized Human HLA-G Free Heavy Chain, His Tag at 2μg/ml (100μl/Well) on the. Dose response curve for Anti-HLA-G Antibody, hFc Tag with the EC50 of 29.0ng/ml determined by ELISA (QC Test).

ELISA Data




Immobilized Human HLA-G Free Heavy Chain, His Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for Human KIR2DL4, hFc Tag with the EC50 of 43.4ng/ml determined by ELISA.