

# Recombinant Human HLA-G&B2M Protein, His-Avi-tagged, Biotinylated

**Cat. No.** HLA-G&B2M-392HB    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Biotinylated Human HLA-G Complex Tetramer Protein(P61769&P17693) is expressed from Expi293 with His and Avi Tag at the C-terminal. It contains Gly25-Thr305 (HLA-G),Ile21-Met119 (B2M) and RIIPRHLQL peptide.                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | It contains Gly25-Thr305 (HLA-G),Ile21-Met119 (B2M) and RIIPRHLQL peptide.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Supplied as 0.22um filtered solution in PBS (pH 7.4).                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>   | The protein has a predicted MW of 258 kDa.Due to glycosylation, the protein migrates to 230-260 KDa based on Bis-Tris PAGE result.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Endotoxin</b>        | Less than 1EU per ug by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC                                                                                                             |
| <b>Storage</b>        | The product should be stored at -70°C. Please do not repeated freeze-thaw cycles.                                                                                             |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                        |

## GENE INFORMATION

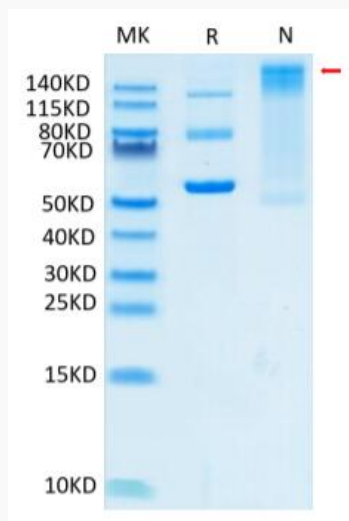
|                        |                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HLA-G major histocompatibility complex, class I, G [ Homo sapiens ]                                            |
| <b>Official Symbol</b> | HLA-G; B2M                                                                                                     |
| <b>Synonyms</b>        | LA class I histocompatibility antigen; alpha chain G; HLA G antigen; MHC class I antigen G; sHLA-G; HLA-G; B2M |
| <b>Gene ID</b>         | 3135                                                                                                           |
| <b>mRNA Refseq</b>     | NM_002127                                                                                                      |
| <b>Protein Refseq</b>  | NP_002118                                                                                                      |
| <b>MIM</b>             | 142871                                                                                                         |
| <b>UniProt ID</b>      | P17693                                                                                                         |

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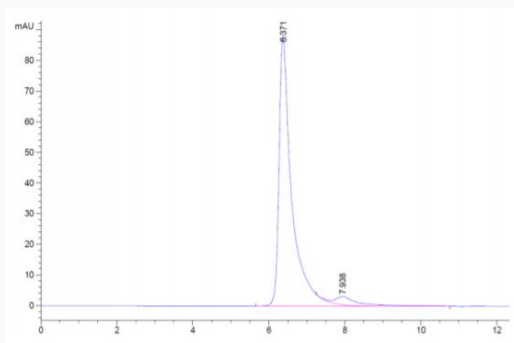
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## SDS-PAGE



## SEC-HPLC

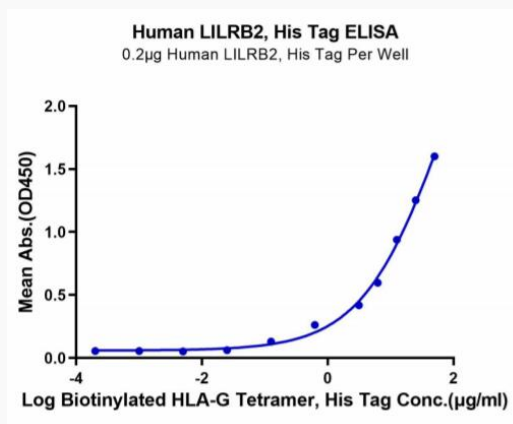


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## ELISA Data



Immobilized Human LILRB2,His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated HLA-G, His Tag with the EC50 of 65.7µg/ml determined by ELISA.

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