

# Recombinant Human HLA-E protein, His-Avi-tagged

**Cat. No.** HLA-E-038H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human HLA-E Complex Tetramer<br>Protein(P61769&P13747&VMAPRTLVL) is expressed from HEK293 with His and Avi tag at the C-terminal. It contains Gly25-Ile305(HLA-E),Ile21-Met119(B2M) and VMAPRTLVL peptide.                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | It contains Gly25-Ile305(HLA-E),Ile21-Met119(B2M) and VMAPRTLVL peptide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | HLA-E is a nonclassical member of the major histocompatibility complex class I gene locus. HLA-E protein shares a high level of homology with MHC Ia classical proteins: it has similar tertiary structure, associates with $\beta$ 2-microglobulin, and is able to present peptides to cytotoxic lymphocytes. The main function of HLA-E under normal conditions is to present peptides derived from the leader sequences of classical HLA class I proteins, thus serving for monitoring of expression of these molecules performed by cytotoxic lymphocytes. |
| <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 tetramer migrates to 230-260 kDa based on Tris-Bis PAGE result.                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | Less than 1EU per $\mu$ g by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95% as determined by Tris-Bis PAGE<br>> 95% as determined by SEC-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. |

## GENE INFORMATION

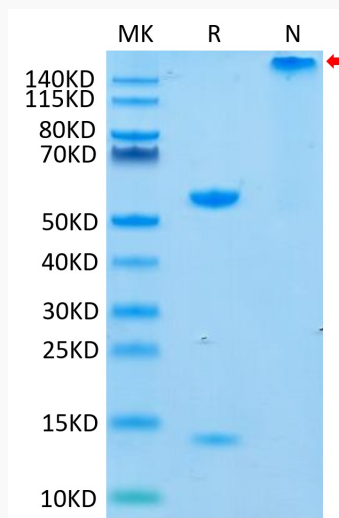
|                        |                                                                             |
|------------------------|-----------------------------------------------------------------------------|
| <b>Gene Name</b>       | HLA-E major histocompatibility complex, class I, E [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | HLA-E                                                                       |
| <b>Synonyms</b>        | HLA class I histocompatibility antigen, alpha chain E; HLAE;sHLA-E          |
| <b>Gene ID</b>         | 3133                                                                        |
| <b>mRNA Refseq</b>     | NM_005516                                                                   |
| <b>Protein Refseq</b>  | NP_005507                                                                   |
| <b>MIM</b>             | 143010                                                                      |
| <b>UniProt ID</b>      | P13747                                                                      |

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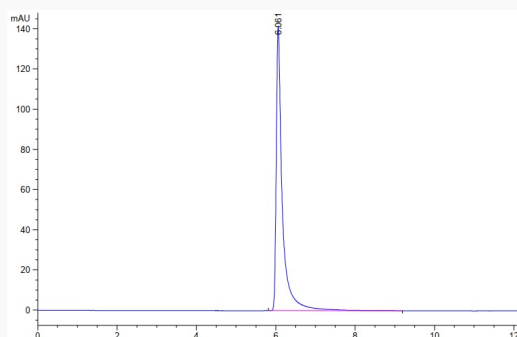
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## SDS-PAGE



## HPLC



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