# Recombinant Human HLA-A/B2M & YLEPGPVTA protein, His-Avi-tagged, Biotinylated

**Cat. No.** HLA-A/B2M & YLEPGPVTA-769HB **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Biotinylated Human HLA-A*0201 gp100 (YLEPGPVTA) complex Protein is expressed from mammalian with a His and avi tag at the C-terminal. It contains Gly 25-Thr 305 (HLA-A*0201),Ile21-Met119 (B2M) and YLEPGPVTA peptide. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | Gly 25-Thr 305 (HLA-A*0201),Ile21-Met119 (B2M) and YLEPGPVTA peptide |
| **Description** | Glycoprotein 100, gp100 or Melanocyte protein PMEL is 661 amino acids long and is a type I transmembrane glycoprotein enriched in melanosomes, which are the melanin-producing organelles in melanocytes. This protein is involved in melanosome maturation. The Human HLAA*0201 gp100 (YLEPGPVTA) complex Protein is a complex of HLA-A*0201 of the MHC Class I, B2M and YLEPGPVTA peptide of the gp100. |
| **Form** | Supplied as 0.22um filtered solution in PBS (pH 7.4). |
| **Molecular Mass** | Human HLA-A*0201 gp100 (YLEPGPVTA) complex Protein has a calculated MW of 50.4kDa. The protein migrates to 52-58kDa based on Bis-Tris PAGE. |
| **Endotoxin** | Less than 0.01EU per ug by the LAL method. |

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| **Purity** | > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC |
| **Storage** | The product should be stored at -70°C. Please do not repeated freeze-thaw cycles. |
| **Conjugation** | Biotin |

## GENE INFORMATION

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| **Gene Name** | HLA-A major histocompatibility complex, class I, A & B2M beta-2-microglobulin [Homo sapiens (human)] |
| **Official Symbol** | HLA-A & B2M |
| **Synonyms** | HLA0201, MHC I, gp100, Glycoprotein 100, ME20-M,Melanocytes lineage-specific antigen GP100, P100 |
| **Gene ID** | 3105 & 567 |
| **mRNA Refseq** | NM_001242758.1 & NM_004048.4 |
| **Protein Refseq** | NP_001229687.1 & NP_004039.1 |
| **MIM** | 142800 & 109700 |
| **UniProt ID** | P30443 & P61769 |
| **Tris-Bis PAGE of HLA-A/B2M & YLEPGPVTA-769HB** | |
| **SEC-HPLC of HLA-A/B2M &** | |

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