

# Recombinant Human GP100 (HLA-A\*02:01) Complex Protein

Catalog No.: RP02686 **Recombinant**

## Sequence Information

<b>Species</b>	<b>Gene ID</b>	<b>Swiss Prot</b>
Human		A0A140T913(HLA-A*02:01)&P61769(B2M)&YLEPGPVTA

### Tags

C-His&Avi

### Synonyms

HLA0201; MHC I; gp100; Glycoprotein 100; ME20-M; P100

## Product Information

<b>Source</b>	<b>Purification</b>
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

<b>Calculated MW</b>	<b>Observed MW</b>
50.4 kDa	52-62 kDa

### Endotoxin

Less than 1EU per µg by the LAL method.

### Formulation

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

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 HLA-A\*0201 gp100 (YLEPGPVTA) complex Protein is a complex of HLA-A\*0201 of the MHC Class I, B2M and YLEPGPVTA peptide of the gp100.

## Basic Information

### Description

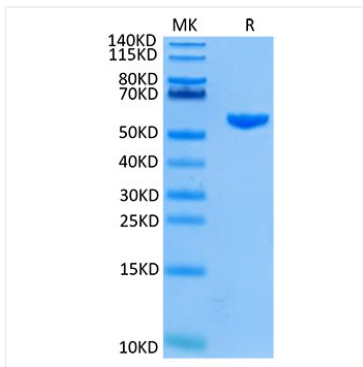
Recombinant Human GP100 (HLA-A\*02:01) Complex Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly25-Thr305(HLA-A\*02:01),Ile21-Met119(B2M) and YLEPGPVTA peptide.

### Bio-Activity

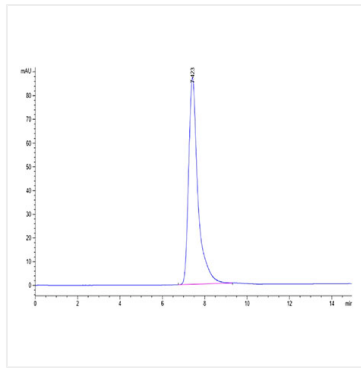
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

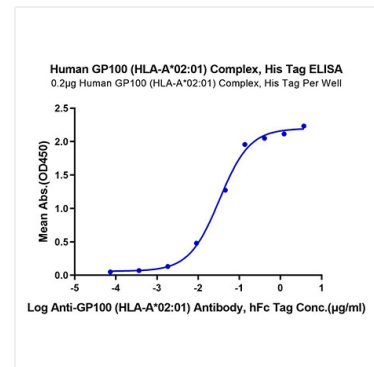
## Validation Data



Human GP100 (HLA-A\*02:01) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human GP100 (HLA-A\*02:01) was greater than 95% as determined by SEC-HPLC.



Immobilized Human GP100 (HLA-A\*02:01) , His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GP100 (HLA-A\*02:01) Antibody, hFc Tag with the EC<sub>50</sub> of 32.9ng/ml determined by ELISA.