

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

Catalog No.: RP02686 Recombinant

Sequence Information

Species Human Gene ID

Swiss Prot A0A140T913(HLA-

A*02:01)&P6 1769(B2M)& YLEPGPVTA

Tags C-His&Avi

C TIISA/WI

Synonyms

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

Product Information

Source

Purification

HEK293 cells ≥ 95 % as determined by Tris-

Bis PAGE;≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

50.4 kDa 52-62 kDa

Endotoxin

< 1 EU/ μg of the protein by 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 stablizer (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

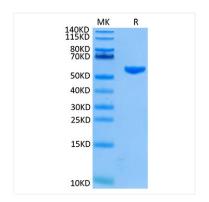
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

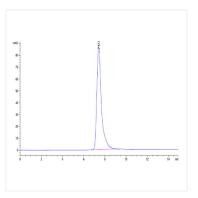
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

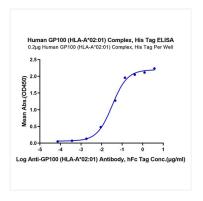
Validation Data



Recombinant Human GP100 (HLA-A*02:01) Complex Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Human GP100 (HLA-A*02:01) , His Tag at 2μ g/ml (100 μ l/Well) on the plate. Dose response curve for Anti-GP100 (HLA-A*02:01) Antibody, hFc Tag with the EC₅₀ of 32.9ng/ml determined by ELISA.