RP02687
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Recombinant Human LMP2 (HLA-A*02:01) Complex Tetramer Protein

Catalog No.: RP02687 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells		A0A140T913 (HLA-A*02:01)&P61769(B2M)&CLGGLLTMV

Tags
C-His&Avi

Synonyms
MHC; RMF; LMP2; LMP-2; Macropain chain 7; Proteasome chain 7; PSMB9; RING12

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

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

The immunoproteasome, having been linked to neurodegenerative diseases and hematological cancers, has been shown to play an important role in MHC class I antigen presentation. The development of molecular probes that selectively inhibit the major catalytic subunit, LMP2, of the immunoproteasome,LMP2-rich cancer cells compared to LMP2-deficient cancer cells are more sensitive to growth inhibition by the LMP2-specific inhibitor, implicating an important role of LMP2 in regulating cell growth of malignant tumors that highly express LMP2.

Basic Information

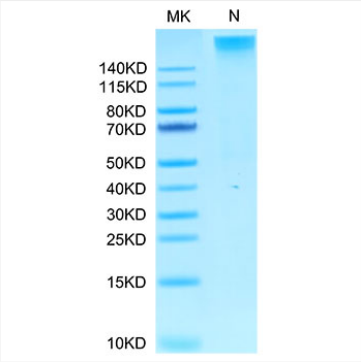
Description
Recombinant Human LMP2 (HLA-A*02:01) Complex Tetramer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal,tetramer is assembled by biotinylated monomer and streptavidin. ; It contains Gly25-Thr305(HLA-A*02:01),Ile21-Met119(B2M) and CLGGLLTMV peptide.

Bio-Activity

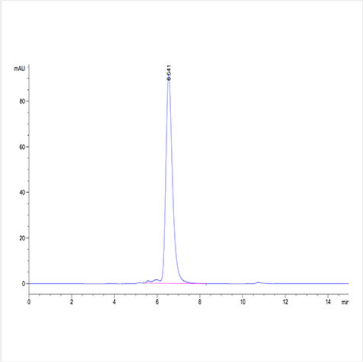
Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

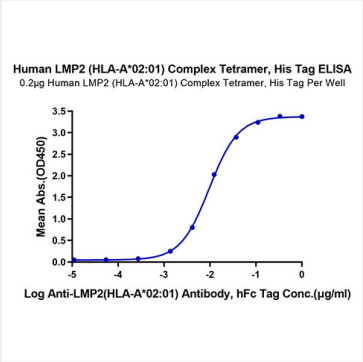
Validation Data



Recombinant Human LMP2 (HLA-A*02:01) Complex Tetramer Protein was determined by Tris-Bis PAGE under non-reducing (NR) conditions.



The purity of Human LMP2 (HLA-A*02:01) Tetramer was greater than 95% as determined by SEC-HPLC.



Immobilized Human LMP2 (HLA-A*02:01) Tetramer, His Tag at 2μg/ml (100μl/Well) on the plate. Dose response curve for Anti-LMP2 (HLA-A*02:01) Antibody, hFc Tag with the EC_{50} of 9.6ng/ml determined by ELISA.