

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

Catalog No.: RP02687 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human		A0A140T913(HLA-A*02:01)&P61769(B2M)&CLGGLTMTV

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

Calculated MW	Observed MW
258 kDa	260-265 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

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

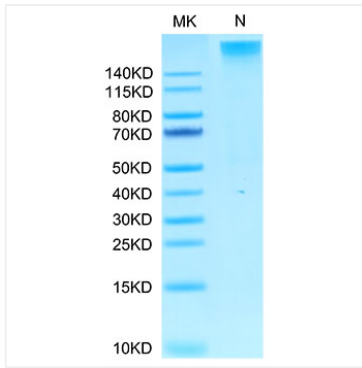
Recombinant Human LMP2 (HLA-A*02:01) Complex Tetramer Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and CLGGLTMTV peptide.

Bio-Activity

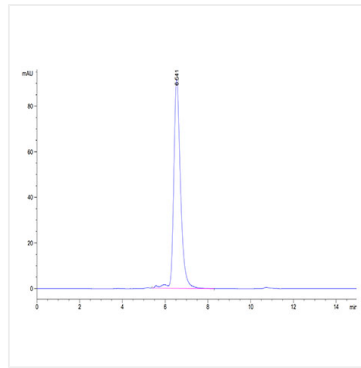
Storage

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.

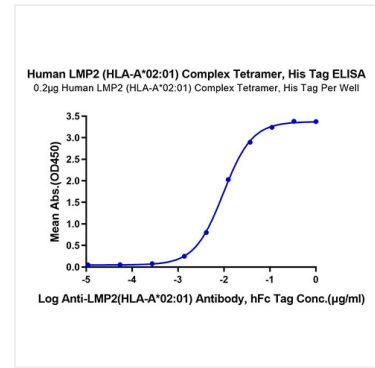
Validation Data



Human LMP2 (HLA-A*02:01) Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95%.



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 EC₅₀ of 9.6ng/ml determined by ELISA.