

Recombinant Human P53 R175H (HLA-A*02:01) Complex Protein

Catalog No.: RP02688 **Recombinant**

Sequence Information

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

Tags

C-His&Avi

Synonyms

MHC; HLA-A; P53; TP53; Antigen NY-CO-13; BCC7; FLJ92943; LFS1; TRP53

Product Information

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

Calculated MW	Observed MW
50.5 kDa	51-60 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

p53 is a tumor suppressor protein. Under stressful conditions, p53 tightly regulates cell growth by promoting apoptosis and DNA repair. When p53 becomes mutated, it loses its function, resulting in abnormal cell proliferation and tumor progression. Depending on the p53 mutation, it has been shown to form aggregates leading to negative gain of function of the protein. p53 mutant associated aggregation has been observed in several cancer tissues and has been shown to promote tumor growth.

Basic Information

Description

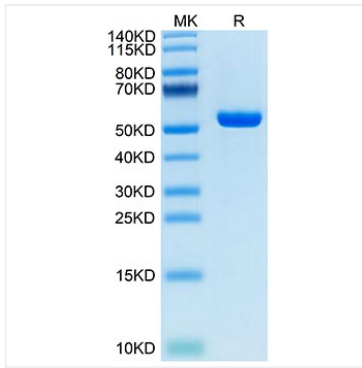
Recombinant Human P53 R175H (HLA-A*02:01) Complex Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Gly25-Thr305(HLA-A*02:01), Ile21-Met119(B2M) and HMTEVVRHC peptide.

Bio-Activity

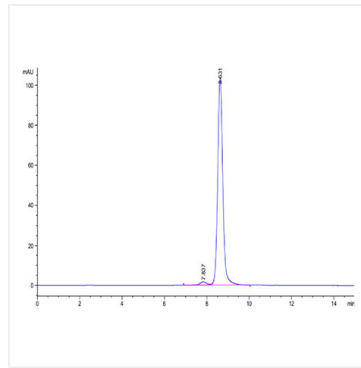
Storage

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.

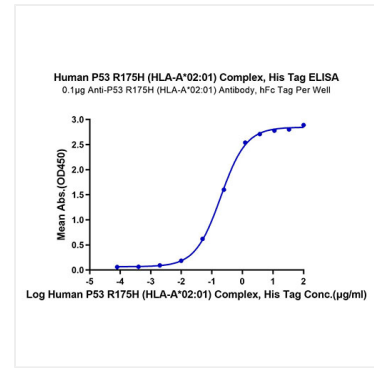
Validation Data



Human P53 R175H (HLA-A*02:01) on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human P53 R175H (HLA-A*02:01) is greater than 95% as determined by SEC-HPLC.



Immobilized Anti-P53 R175H (HLA-A*02:01) Antibody, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human P53 R175H (HLA-A*02:01) , His Tag with the EC₅₀ of 0.19µg/ml determined by ELISA.