

Human HLA-A\*03:01&B2M&KRASG12C (VVVGACGVGK) Complex Protein (Monomer, MALS verified)

Catalog # HLC-H52H6



Synonym

HLA-A\*0301 & B2M & KRASG12C (VVVGACGVGK)

Source

Human HLA-A\*03:01&B2M&KRASG12C (VVVGACGVGK) Complex Protein(HLC-H52H6) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A\*03:01) & Ile 21 - Met 119 (B2M) & VVVGACGVGK peptide (Accession # [P04439](#) (HLA-A\*03:01) & [P61769](#) (B2M) & VVVGACGVGK).  
Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

Human HLA-A\*03:01&B2M&KRASG12C (VVVGACGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRASG12C peptide.  
This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 37.7 kDa and 15.7 kDa. The protein migrates as 42-45 kDa and 15 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.  
>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.  
Contact us for customized product form or formulation.

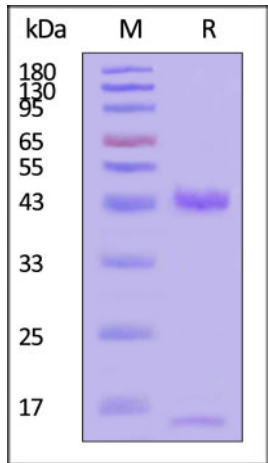
Reconstitution

Please see Certificate of Analysis for specific instructions.  
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
*Please avoid repeated freeze-thaw cycles.*  
This product is stable after storage at:  
• -20°C to -70°C for 12 months in lyophilized state;  
• -70°C for 3 months under sterile conditions after reconstitution.

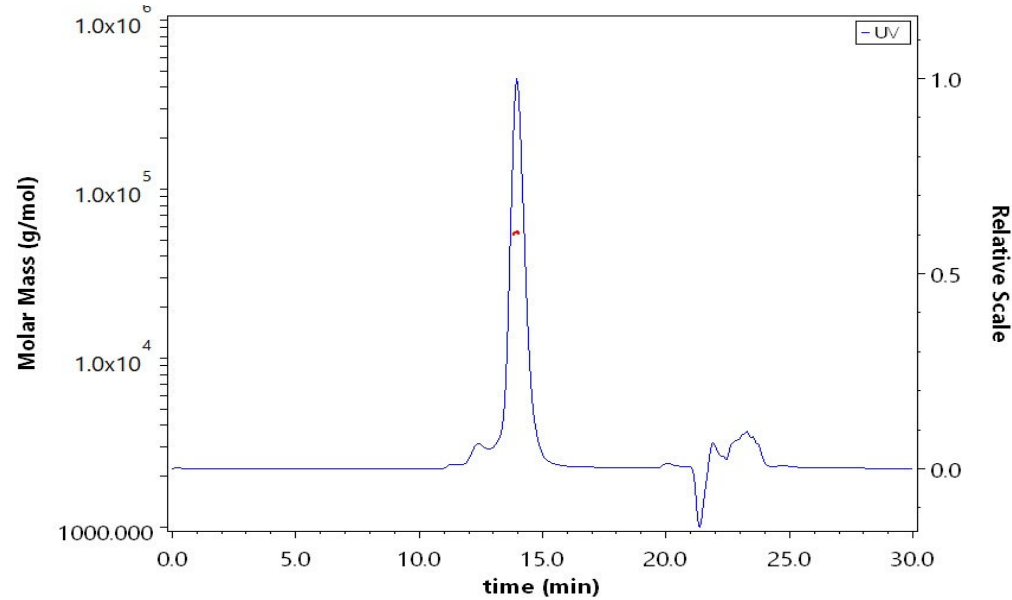
SDS-PAGE



Human HLA-A\*03:01&B2M&KRASG12C (VVVGACGVGK) Complex Protein on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS

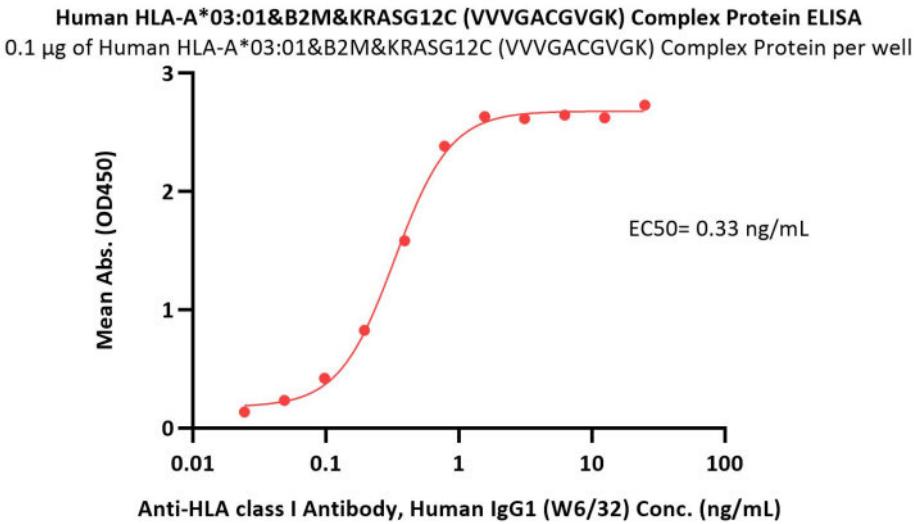


The purity of Human HLA-A\*03:01&B2M&KRASG12C (VVVGACGVGK) Complex Protein (Cat. No. HLC-H52H6) is more than 90% and the molecular weight of this protein is around 50-70 kDa verified by SEC-MALS.  
[Report](#)



Human HLA-A\*03:01&B2M&KRASG12C (VVVGACGVGK) Complex Protein (Monomer, MALS verified)

Catalog # HLC-H52H6



Immobilized Human HLA-A\*03:01&B2M&KRASG12C (VVVGACGVGK) Complex Protein (Cat. No. HLC-H52H6) at 1 µg/mL (100 µL/well) can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.02-1 ng/mL (QC tested).

Background

The Kirsten rat sarcoma 2 viral oncogene homolog (KRAS) oncogene plays a critical role in the initiation and maintenance of pancreatic tumors and its signaling network represents a major target for therapeutic intervention. The Human HLA-A\*0301 KRASG12C (VVVGACGVGK) complex protein is a complex of HLA-A\*0301 of the MHC Class I, B2M, and VVVGACGVGK peptide of the KRASG12C.

