

Human HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer Protein



Cat. No. MHC-HM422

Description

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|-------------------------|--|
| Source | Recombinant Human HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305(HLA-A*11:01),Ile21-Met119(B2M) and VVGAVGVGK peptide. |
| Accession | AAV53343.1(HLA-A*11:01)&P61769(B2M)&VVGAVGVGK |
| Molecular Weight | The protein has a predicted MW of 50.2 kDa. Due to glycosylation, the protein migrates to 56-65 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

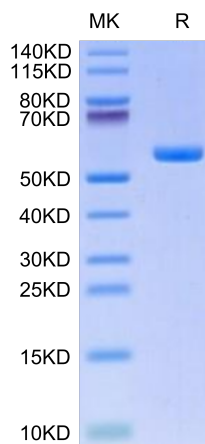
| | |
|-----------------------|---|
| Formulation | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

Background

Kirsten rat sarcoma 2 viral oncogene homolog (KRAS) is the most commonly mutated oncogene in human cancer. The developments of many cancers depend on sustained expression and signaling of KRAS, which makes KRAS a high-priority therapeutic target. The virtual screening approach to discover novel KRAS inhibitors and synthetic lethality interactors of KRAS are discussed in detail.

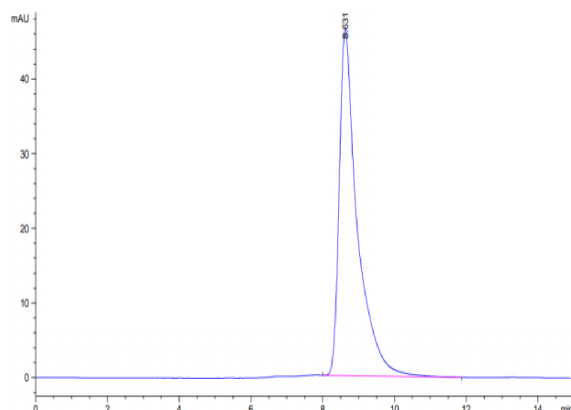
Assay Data

Bis-Tris PAGE



Human HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

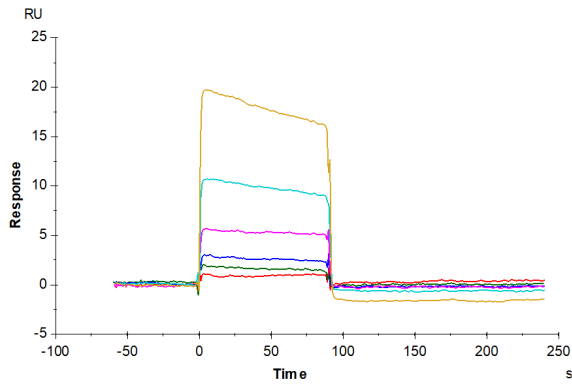
SEC-HPLC



The purity of Human HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Human HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) Monomer, His Tag captured on CM5 Chip via Anti-His Antibody can bind HLA-A*11:01&B2M&KRAS G12V (VVGAVGVGK) TCR with an affinity constant of 16.51 μ M as determined in SPR assay (Biacore T200).