

Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer Protein



Cat. No. MHC-HM418T

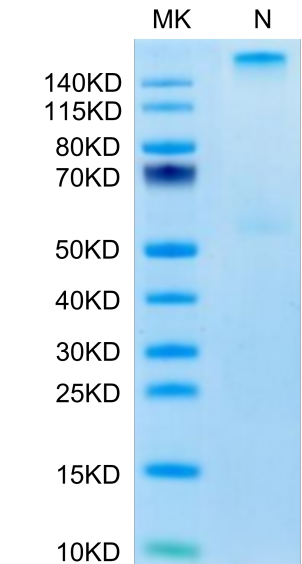
| Description | |
|------------------|--|
| Source | Recombinant Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus, tetramer is assembled by biotinylated monomer and streptavidin. It contains Gly25-Thr305(HLA-A*03:01), Ile21-Met119(B2M) and VVVGAVGVGK peptide. |
| Accession | NP_002107.3(HLA-A*03:01)&P61769(B2M)&VVVGAVGVGK |
| Molecular Weight | The protein has a predicted MW of 258 kDa. Due to glycosylation, the protein migrates to 260-265 kDa under Non reducing (N) condition based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1 EU per ug 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 | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| 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

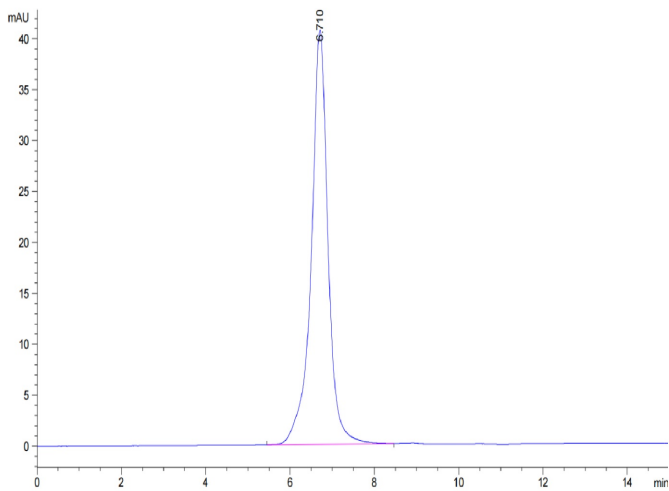
Bis-Tris PAGE



Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.

SEC-HPLC

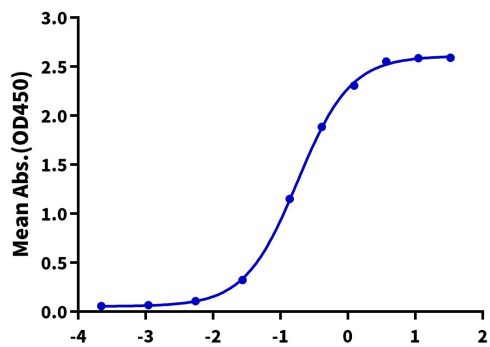
Assay Data



The purity of Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer is greater than 95% as determined by SEC-HPLC.

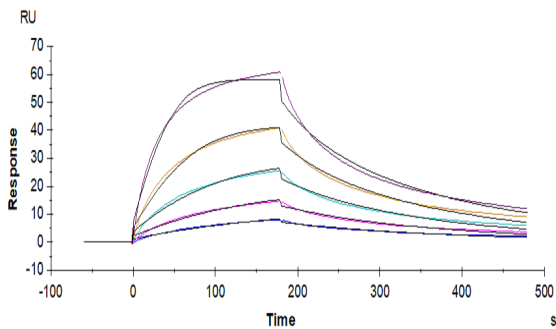
ELISA Data

Human KRAS G12V (HLA-A*03:01) Tetramer, His Tag ELISA
0.5µg Human KRAS G12V (HLA-A*03:01) Tetramer, His Tag Per Well



Immobilized Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Antibody, hFc Tag with the EC50 of 0.18µg/ml determined by ELISA (QC Test).

SPR Data



Anti-HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Antibody captured on CM5 Chip via Protein A can bind Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer, His Tag with an affinity constant of 42.3 nM as determined in SPR assay (Biacore T200).