

# Biotinylated Human HLA-A\*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer Protein



Cat. No. MHC-HE454B

## Description

<b>Source</b>	Recombinant Biotinylated Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-Terminus. It contains Gly25-Thr305 (HLA-A*03:01), Ile21-Met119 (B2M) and VVVGAVGVGK peptide.
<b>Accession</b>	NP_002107.3(HLA-A*03:01)&P61769(B2M)&VVVGAVGVGK
<b>Molecular Weight</b>	The protein has a predicted MW of 35.26 kDa (HLA-A*03:01) and 11.9 kDa (B2M) same as Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

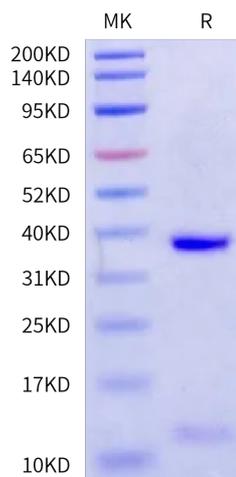
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

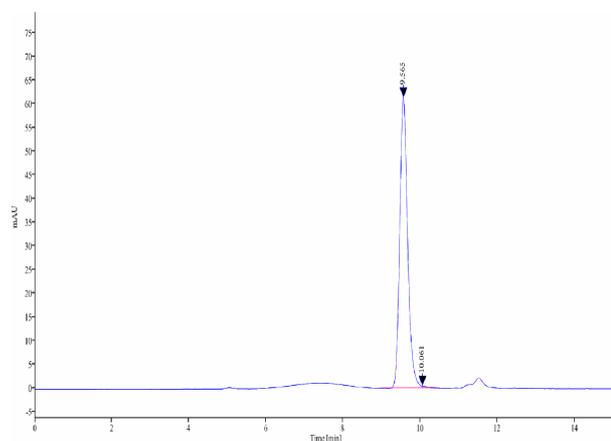
## Assay Data

### Bis-Tris PAGE



Biotinylated Human HLA-A\*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



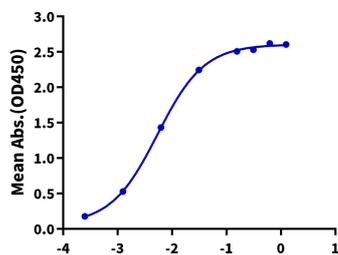
The purity of Biotinylated Human HLA-A\*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human HLA-A\*03:01&B2M&KRAS G12V (VVVGAVGVGK), His Avi Tag ELISA**

0.2µg Biotinylated Human HLA-A\*03:01&B2M&KRAS G12V (VVVGAVGVGK), His Avi Tag Per Well



Log Anti-HLA-A\*03:01&B2M&KRAS G12V Antibody, hFc Tag Conc.(µg/ml)

Immobilized Biotinylated Human HLA-A\*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer, His Avi Tag at 2µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-HLA-A\*03:01&B2M&KRAS G12V (VVVGAVGVGK) Antibody, hFc Tag with the EC50 of 5.4ng/ml determined by ELISA.