

# Human HLA-A\*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer Protein



Cat. No. MHC-HM421T

## Description

**Source** Recombinant Human HLA-A\*11:01&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\*11:01), Ile21-Met119(B2M) and VVVGAVGVGK peptide.

**Accession** AAV53343.1(HLA-A\*11:01)&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 1EU 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** Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.

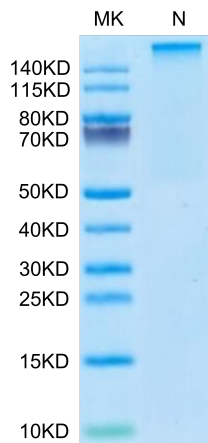
**Storage** -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

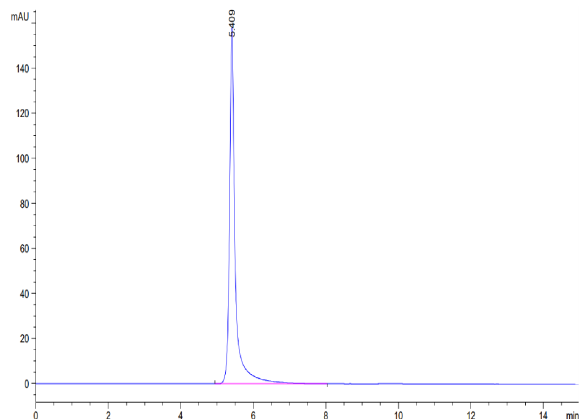
## Assay Data

### Bis-Tris PAGE



Human HLA-A\*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer on Bis-Tris PAGE under Non reducing (N) condition. The purity is greater than 95%.

### SEC-HPLC



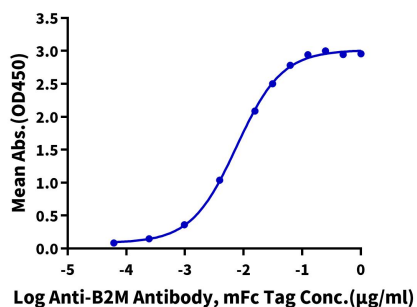
The purity of Human HLA-A\*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human HLA-A\*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer, His Tag ELISA

0.05µg Human HLA-A\*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer, His Tag Per Well



Immobilized Human HLA-A\*11:01&B2M&KRAS G12V (VVVGAVGVGK) Tetramer, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 7.6ng/ml determined by ELISA (QC Test).