#### Catalog # HLD-H52H8

#### Synonym

HLA-A\*1101 | B2M | KRASG12D (VVGADGVGK)

#### Source

Human HLA-A\*11:01&B2M&KRASG12D (VVGADGVGK) Tetramer Protein(HLD-H52H8) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Thr 305 (HLA-A\*11:01) & Ile 21 - Met 119 (B2M) & VVGADGVGK peptide (Accession # Q5S3G3-1 (HLA-A\*11:01) & P61769 (B2M) & VVGADGVGK). Predicted N-terminus: Gly 25 & Ile 21

## **Molecular Characterization**

Human HLA-A\*11:01&B2M&KRASG12D (VVGADGVGK) Tetramer Protein is assembled by biotinylated monomer and streptavidin.

Biotinylated Human HLA-A\*11:01&B2M&KRASG12D (VVGADGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRASG12D peptide. Biotinylated Human HLA-A\*11:01&B2M&KRASG12D (VVGADGVGK) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag<sup>TM</sup>).

The protein has a calculated MW of 36.0 kDa and 11.7 kDa. The protein migrates as 39-43 kDa, 14 kDa and 12 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method.

## **SDS-PAGE**

kDa Μ R 250.0 150.0 100.0 70.0 50.0 40.0 30.0 20.0 15.0 10.0 5.0

# Human HLA-A\*11:01&B2M&KRASG12D (VVGADGVGK) Tetramer Protein on SDS-PAGE under reducing (R) condition. The gel was stained with

## Purity

>90% as determined by SDS-PAGE.

### **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.

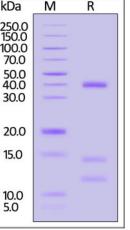
#### Storage

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.



Coomassie Blue. The purity of the protein is greater than 90%.

**Bioactivity-ELISA** 

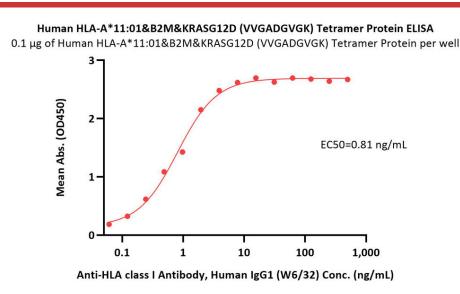
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5/8/2023

## Human HLA-A\*11:01&B2M&KRASG12D (VVGADGVGK) Tetramer Protein



#### Catalog # HLD-H52H8



Immobilized Human HLA-A\*11:01&B2M&KRASG12D (VVGADGVGK) Tetramer Protein (Cat. No. HLD-H52H8) at 1 µg/mL (100 µL/well) can bind Anti-HLA class I Antibody, Human IgG1 (W6/32) with a linear range of 0.1-2 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\*1101 KRASG12D (VVGADGVGK) complex protein is a complex of HLA-A\*1101 of the MHC Class I, B2M, and VVGADGVGK peptide of the KRASG12D.

#### **Clinical and Translational Updates**

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.



