



## Source

PE-Labeled Human HLA-A\*03:01&B2M&KRASG12V (VVGAVGVGK) Tetramer Protein(HLV-HP2H8) is expressed from human 293 cells (HEK293). It contains AA Gly 25 -Thr 305 (HLA-A\*03:01) & Ile 21 - Met 119 (B2M) & VVGAVGVGK peptide (Accession # [P04439-1](#) (HLA-A\*03:01) & [P61769](#) (B2M) & VVGAVGVGK).

Predicted N-terminus: Ile 21

## Molecular Characterization

PE-Labeled Human HLA-A\*03:01&B2M&KRASG12V (VVGAVGVGK) Tetramer Protein is assembled by biotinylated monomer (HLV-H82E9) and PE-labeled streptavidin.

Biotinylated Human HLA-A\*03:01&B2M&KRASG12V (VVGAVGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRASG12V peptide. Biotinylated Human HLA-A\*03:01&B2M&KRASG12V (VVGAVGVGK) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

## Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 1% BSA, 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 protect from light and 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.

## 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 Biotinylated Human HLA-A\*0301 KRASG12V (VVGAVGVGK) complex protein is a complex of HLA-A\*0301 of the MHC Class I, B2M, and VVGAVGVGK peptide of the KRASG12V.

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