

Synonym

HLA-A*3001 & B2M & KRASG12V (VVGAVGVGK)

Source

APC-Labeled Human HLA-A*30:01&B2M&KRASG12V (VVGAVGVGK) Tetramer Protein(HLV-HA2H7) is expressed from human 293 cells (HEK293). It contains AA Gly 25 - Ile 308 (HLA-A*30:01) & Ile 21 - Met 119 (B2M) & VVGAVGVGK peptide (Accession # [AAA70162.1](#) (HLA-A*30:01) & [P61769](#) (B2M) & VVGAVGVGK).

Predicted N-terminus: Gly 25 & Ile 21

Molecular Characterization

APC-Labeled Human HLA-A*30:01&B2M&KRASG12V (VVGAVGVGK) Tetramer Protein is assembled by biotinylated monomer and APC-labeled streptavidin.

Biotinylated Human HLA-A*30:01&B2M&KRASG12V (VVGAVGVGK) Complex Protein is produced by co-expression of HLA and B2M loaded with KRASG12V peptide. Biotinylated Human HLA-A*30:01&B2M&KRASG12V (VVGAVGVGK) Complex Protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

Conjugate

APC

Excitation Wavelength: 640 nm

Emission Wavelength: 661 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 Human HLA-A*3001 KRASG12V (VVGAVGVGK) complex protein is a complex of HLA-A*3001 of the MHC Class I, B2M, and VVGAVGVGK peptide of the KRASG12V.

Clinical and Translational Updates

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