

HLA-A\*03:01&B2M&KRAS G12V (VVGAVGVGK) Monomer Protein, Human, MHC (E. coli, His & Avi),

## General Information

**Synonyms:** CFC2;K-Ras 2;KI-RAS;RALD;RASK2;C-K-RAS;K-RAS4B;KRAS2;K-RAS2B;K-RAS4A;NS3;MHC;K-RAS2A;NS;KRAS1;GTPase Kras;KRAS

**Protein Construction:** Gly25-Thr305 (HLA-A\*03:01), Ile21-Met119 (B2M) and VVGAVGVGK peptide

**Species:** Human

**Expression Host:** E. coli

**Accession:** NP\_002107.3(HLA-A\*03:01)&P61769(B2M)&VVGAVGVGK

**Molecular Weight:** 35.26 kDa (HLA-A\*03:01) and 11.9 kDa (B2M)

## QC Testing

**Biological Activity:** Immobilized Biotinylated Human HLA-A\*03:01&B2M&KRAS G12V (VVGAVGVGK) Monomer, His Tag at 1 µg/ml (100 µl/Well) on streptavidin (5 µg/ml) precoated plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 11.3 ng/ml determined by ELISA.

**Purity:** > 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC

**Endotoxin:** < 1 EU/µg of the protein as determined by the LAL method.

**Formulation:** Supplied as 0.22 µm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).

## Preparation and Storage

### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein 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.

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