

## HLA-A\*03:01&amp;B2M&amp;KRAS G12D (VVVGADGVGK) Monomer Protein, Human, MHC (His &amp; Avi)

## General Information

Synonyms:	KRAS2;KRAS1;K-RAS2B;KI-RAS;K-Ras 2;MHC;NS;K-RAS4B;GTPase Kras;C-K-RAS;K-RAS4A;RALD;RASK2;K-RAS2A;KRAS;CFC2;NS3
Protein Construction:	Gly25-Thr305 (HLA-A*03:01), Ile21-Met119 (B2M) and VVVGADGVGK peptide
Species:	Human
Expression Host:	E. coli
Accession:	NP_002107.3(HLA-A*03:01)&P61769(B2M)&VVVGADGVGK
Molecular Weight:	35.26 kDa (HLA-A*03:01) and 11.9 kDa (B2M)

## QC Testing

Biological Activity:	Immobilized Human HLA*03:01&B2M&KRAS G12D (VVVGADGVGK) Monomer, His Tag at 0.5 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 18.9 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 &amp; 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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