

HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer Protein, Human, MHC (His & Avi)

General Information

Synonyms:	NS;RALD;C-K-RAS;RASK2;K-RAS2B;KRAS2;KRAS;K-RAS2A;K-RAS4A;KRAS1;MHC;K-Ras 2;K-RAS4B;GTPase Kras;KI-RAS;NS3;CFC2
Protein Construction:	Gly25-Thr305(HLA-A*03:01),Ile21-Met119(B2M) and VVVGAVGVGK peptide
Species:	Human
Expression Host:	HEK293 Cells
Accession:	NP_002107.3(HLA-A*03:01)&P61769(B2M)&VVVGAVGVGK
Molecular Weight:	The protein has a predicted MW of 50.2 kDa. Due to glycosylation, the protein migrates to 55-60 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Human HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Monomer, His Tag captured on CM5 Chip via anti-his antibody can bind Anti-HLA-A*03:01&B2M&KRAS G12V (VVVGAVGVGK) Antibody with an affinity constant of 0.11 μ M as determined in SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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.

Reference

Wu HZ, et al. KRAS: A Promising Therapeutic Target for Cancer Treatment. Curr Top Med Chem. 2019;19(23):2081-2097. doi: 10.2174/1568026619666190905164144. PMID: 31486755.

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