

HLA-A\*11:01&amp;B2M&amp;KRAS G12C (VVGACGVGK) Monomer Protein, Human, MHC (E. coli, His &amp; Avi),

**General Information**

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

Protein Construction: Gly25-Thr305 (HLA-A\*11:01), Ile21-Met119 (B2M) and VVGACGVGK peptide

Species: Human

Expression Host: E. coli

Accession: AAV53343.1(HLA-A\*11:01)&P61769(B2M)&VVGACGVGK

Molecular Weight: 35.36 kDa (HLA-A\*11:01) and 11.9 kDa (B2M)

**QC Testing**

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.

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, 200 mM L-arginine (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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481