

HLA-A*11:01&B2M&KRAS G12R (VVVGARGVGK) Monomer Protein, Human, MHC (His & Avi),

General Information

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

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

Species: Human

Expression Host: HEK293 Cells

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

Molecular Weight: The protein has a predicted MW of 50.30 kDa. Due to glycosylation, the protein migrates to 53-63 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

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

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μm 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 μg/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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481