

HLA-A*11:01&B2M&RAB7B (IVGAIGVGK) Monomer Protein, Human, MHC (His & Avi), Biotinylated

General Information

Synonyms: RAS7B;IVGAIGVGK

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

Species: Human

Expression Host: E. coli

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

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 PBS (pH 7.4).

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

RAS (H-ras, K-ras, and N-ras), as the second largest mutated gene driver in various human cancers, has long been a vital research target for cancer. Its function is to transform the extracellular environment into a cascade of intracellular signal transduction. RAS mutant protein regulates tumor cell proliferation, apoptosis, metabolism and angiogenesis through downstream MAPK, PI3K and other signaling pathways.

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