

HLA-A*02:01&B2M&IGKC (FIFPPSDEQL) Monomer Protein, Human, MHC (His & Avi), Biotinylated

General Information

Synonyms: FIFPPSDEQL

Protein Construction: Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and FIFPPSDEQL peptide

Species: Human

Expression Host: E. coli

Accession: A0A140T913(HLA-A*02:01)&P61769(B2M)&FIFPPSDEQL

Molecular Weight: 35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M)

QC Testing

Biological Activity: Immobilized Biotinylated Human HLA-A*02:01&B2M&IGKC (FIFPPSDEQL) Monomer, His Tag at 1 µg/ml (100 µl/well) on the streptavidin precoated plate (5 µg/ml). Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 27.4 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 & 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

IGKC (Immunoglobulin kappa constant) is a segment of the kappa light chain. This region is important for the stability and function of the antibody molecule, as it helps in the proper folding and assembly of the immunoglobulin. Additionally, the kappa constant region may also be involved in the interaction between the antibody and other immune system components.

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