

HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer Protein, Human, MHC (E. coli, His & Avi)

General Information

Synonyms: EGFR;PIG61;HER1;NISBD2;EC 2.7.10.1;ERBB;ERBB1;ErbB;LEGFR;mENA;EC 2.7.10

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

Species: Human

Expression Host: E. coli

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

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

QC Testing

Biological Activity: Immobilized Human HLA-A*11:01&B2M&EGFR L858R (KITDFGRAK) Monomer, His Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for HLA-A*11:01&B2M&EGFR TCR with the EC50 of 2.33 µg/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

The epidermal growth factor receptor is a transmembrane protein that is a receptor for members of the epidermal growth factor family of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR, HER2/neu, Her 3 and Her 4. Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses.

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