

HLA-A*02:01&B2M&P53 R175H (HMTEVVRHC) Monomer Protein, Human, MHC (E. coli, His & Avi),

General Information

Synonyms: TP53;BCC7;TRP53;MHC;FLJ92943;P53;LFS1;Antigen NY-CO-13;HLA-A

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

Species: Human

Expression Host: E. coli

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

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&P53 R175H (HMTEVVRHC) 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 11.5 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: Lyophilized from 0.22 µm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0). Normally 8% mannitol is added as protectant 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:

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

p53 is a tumor suppressor protein. Under stressful conditions, p53 tightly regulates cell growth by promoting apoptosis and DNA repair. When p53 becomes mutated, it loses its function, resulting in abnormal cell proliferation and tumor progression. Depending on the p53 mutation, it has been shown to form aggregates

A DRUG SCREENING EXPERT

leading to negative gain of function of the protein. p53 mutant associated aggregation has been observed in several cancer tissues and has been shown to promote tumor growth.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481