

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

## General Information

Synonyms: BCC7;TRP53;MHC;P53;LFS1;Antigen NY-CO-13;HLA-A;TP53;FLJ92943  
Protein Construction: Gly25-Thr305 (HLA-A\*02:01), Ile21-Met119 (B2M) and HMTEVRRRC peptide  
Species: Human  
Expression Host: E. coli  
Accession: A0A140T913(HLA-A\*02:01)&P61769(B2M)&HMTEVRRRC  
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 WT (HMTEVRRRC) Monomer, His-Avi Tag at 1 µg/ml (100 µl/Well) on streptavidin (5 µg/ml) precoated plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 14.8 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

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 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.

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