

HLA-A\*02:01&B2M&MTMR5 (KMQGAPPAV) Monomer Protein, Human, MHC (His & Avi),

## General Information

Synonyms: KMQGAPPAV;MTMR5

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

Species: Human

Expression Host: E. coli

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

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&MTMR5 (KMQGAPPAV) Monomer, His Tag at 0.5 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 6.8 ng/ml determined by ELISA (QC Test).

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 human SBF1 (SET binding factor 1) gene, alternatively known as MTMR5, is predominantly expressed in the brain, and its epigenetic dysregulation is linked to late-onset neurocognitive disorders (NCDs), such as Alzheimer's disease.

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