

HLA-A\*02:01&B2M&CMV pp65 (NLVPMVATV) Tetramer Protein, Human, MHC (His & Avi)

## General Information

**Synonyms:** MHC;CMV pp65;HLA-A\*02:01

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

**Species:** Human

**Expression Host:** HEK293 Cells

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

**Molecular Weight:** 258 kDa (Predicted); 260-265 kDa (Non-reducing condition, due to glycosylation)

## QC Testing

**Biological Activity:** Activity has not been tested. It is theoretically active, but we cannot guarantee it.

**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 PBS (pH 7.4). Normally 8% trehalose 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

Human cytomegalovirus (CMV) is one of the major causes of severe complications in immunocompromised patients, such as recipients of hematopoietic cells, solid organ transplantation, and HIV-infected individuals. CMV is also a major pathogen in congenital infection. It can cause life-threatening diseases and severe neurological sequelae in newborn infants. CMV phosphoprotein pp65 is thought to be a major antigen for CMV-specific cellular immunity.

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