## Human HLA-A\*02:01&B2M&CMVpp65 (NLVPMVATV) Tetramer Protein

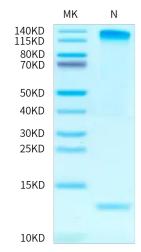
## S (NLVPMVATV) Tetramer Protein

| Description             |   |
|-------------------------|---|
| Source                  | Recombinant Human HLA-A*02:01&B2M&CMVpp65 (NLVPMVATV) Tetramer Protein is expressed from E.coli with His tag and Avi tag at the C-Terminus, tetramer is assembled by biotinylated monomer and streptavidin.   |
|                         | It contains Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and NLVPMVATV peptide.   |
| Accession               | A0A140T913(HLA-A*02:01)&P61769(B2M)&NLVPMVATV   |
| Molecular<br>Weight     | The protein has a predicted MW of 258 kDa. The protein migrates to 120-180 kDa (HLA-A*02:01&streptavidin tetramer) and 11.9 kDa (B2M) based on Tris-Bis PAGE result under Non reducing (N) condition.   |
| Endotoxin               | Less than 1EU per μg by the LAL method.   |
| Purity                  | > 95% as determined by Tris-Bis PAGE  |
|                         | > 95% as determined by HPLC   |
| Formulation and Storage |   |
| Formulation             | Supplied as 0.22 µm filtered solution in PBS (pH 7.4).  |
| Storage                 | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.  |
| Background              |   |
|                         | Human cytomegalovirus (CMV), a β-herpes virus with a double-stranded DNA, infects a wide variety of cells and establishes latency in the host. CMVpp65, a tegument protein of the herpes virus CMV, is the main viral antigen found in peripheral blood mononuclear cells (PBMCs) after viral infection and may activate cell-mediated immunity, accounting for 70-90% of the cytotoxic CD8+ T cells' (CTLs) response to CMV. Among the pp65-derived CTL epitope peptides, the 9-mer peptide 495NLVPMVATV503 (CMVpp65 495-503 peptide) is the most immunogenic T cell epitope predominantly displayed on HLA-A*02:01, the most common MHC-I allele in the population. |
| Assay Data              |   |

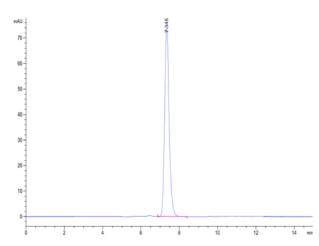
## Tris-Bis PAGE

Cat. No.

MHC-HE013T



## SEC-HPLC



Human HLA-A\*02:01&B2M&CMVpp65 (NLVPMVATV) Tetramer on Tris-Bis PAGE under Non reducing (N) condition. The purity is greater than 95%.

The purity of Human HLA-A\*02:01&B2M&CMVpp65 (NLVPMVATV) Tetramer is greater than 95% as determined by SEC-HPLC.