

Human HLA-B*15:01&B2M&SARS-CoV-2 epitope (NQKLIANQF) Monomer Protein



Cat. No. MHC-HM448

Description

Source	Recombinant Human HLA-B*15:01&B2M&SARS-CoV-2 epitope (NQKLIANQF) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Gly21-Thr301(HLA-B*15:01), Ile21-Met119(B2M) and NQKLIANQF peptide.
Accession	AAA53258.1(HLA-B*15:01)&P61769(B2M)&NQKLIANQF
Molecular Weight	The protein has a predicted MW of 50.50 kDa. Due to glycosylation, the protein migrates to 52-68 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

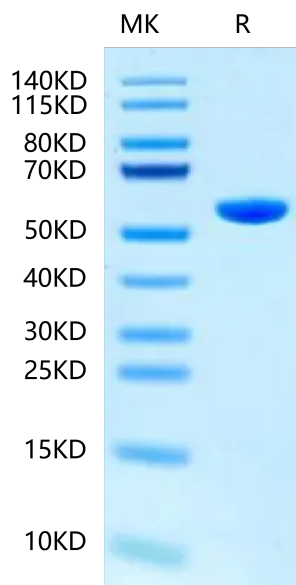
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

HLA-B*15:01 is strongly associated with asymptomatic infection with SARS-CoV-2 and is likely to be involved in the mechanism underlying early viral clearance. T cells from pre-pandemic individuals carrying HLA-B*15:01 were reactive to the immunodominant SARS-CoV-2 S-derived peptide NQKLIANQF, and 100% of the reactive cells displayed memory phenotype.

Assay Data

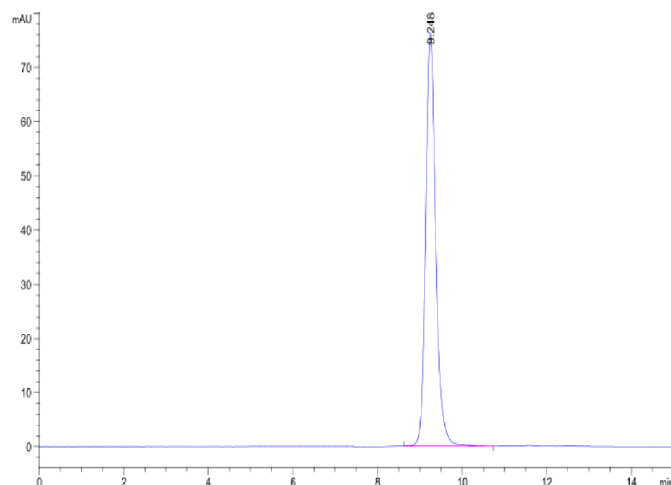
Bis-Tris PAGE



Human HLA-B*15:01&B2M&SARS-CoV-2 epitope (NQKLIANQF) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human HLA-B*15:01&B2M&SARS-CoV-2 epitope (NQKLIANQF) Monomer is greater than 95% as determined by SEC-HPLC.