

Cat. No. MHC-HE470B

Description

Source	Recombinant Biotinylated Human HLA-A*03:01&B2M&Influenza NP (ILRGVAHK) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305(HLA-A*03:01), Ile21-Met119(B2M) and ILRGVAHK peptide.
Accession	NP_002107.3(HLA-A*03:01)&P61769(B2M)&ILRGVAHK
Molecular Weight	The protein has a predicted MW of 35.39 kDa (HLA-A*03:01) and 11.9 kDa (B2M) same as 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

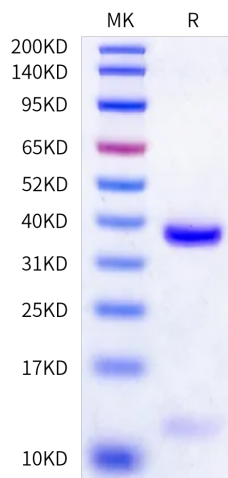
Formulation	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Influenza A virus (IAV) is a respiratory pathogen that causes seasonal epidemics with significant mortality. Influenza virus genome encapsidation is essential for the formation of a helical viral ribonucleoprotein (vRNP) complex composed of nucleoproteins (NP), the trimeric polymerase, and the viral genome. The RNA, located at the interface of neighboring NP protomers, interacts with conserved residues previously described as essential for the NP-RNA interaction. The NP undergoes conformational changes to enable RNA binding and helix formation.

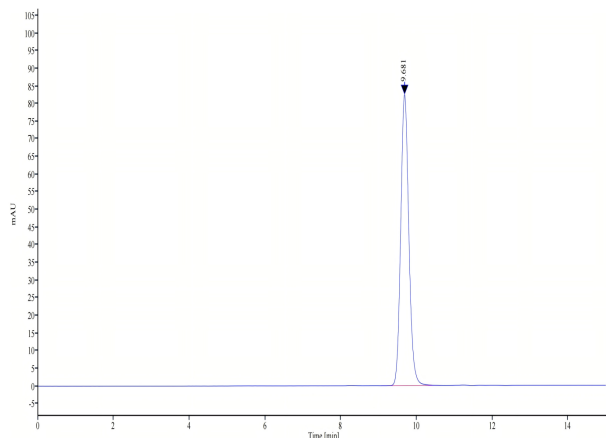
Assay Data

Bis-Tris PAGE



Biotinylated Human HLA-A*03:01&B2M&Influenza NP (ILRGVAHK) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human HLA-A*03:01&B2M&Influenza NP (ILRGVAHK) Monomer is greater than 95% as determined by SEC-HPLC.