

Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Monomer Protein

Cat. No. MHC-HM465

Description

Source	Recombinant Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Monomer Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and SLYNTVATL peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&SLYNTVATL
Molecular Weight	The protein has a predicted MW of 50.39 kDa. Due to glycosylation, the protein migrates to 52-65 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU 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	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
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

Gag is the HIV structural precursor protein which is cleaved by viral protease to produce mature infectious viruses. Gag is a polyprotein composed of MA (matrix), CA (capsid), SP1, NC (nucleocapsid), SP2 and p6 domains. The immunodominant HLA-A2-restricted Gag epitope, SLYNTVATL (SL9), is considered to be a poor immunogen because reactivity to it is rare in acute infection despite its paradoxical dominance in patients with chronic infection.

Assay Data

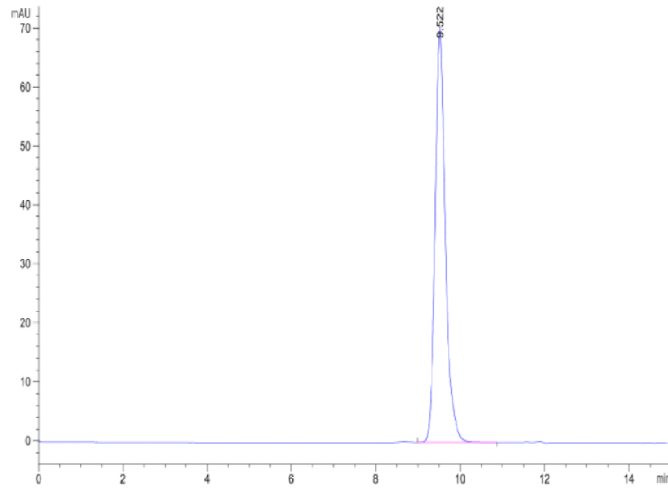
Bis-Tris PAGE



Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Assay Data



The purity of Human HLA-A*02:01&B2M&HIV Gag (SLYNTVATL) Monomer is greater than 95% as determined by SEC-HPLC.