Human HLA-A*02:01&B2M&IGKC (FIFPPSDEQL) Monomer Protein

Cat. No. MHC-HE030

Description

Source	Recombinant Human HLA-A*02:01&B2M&IGKC (FIFPPSDEQL) Monomer Protein is expressed from E.coli with His tag and Avi tag at the C-terminus.
	It contains Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and FIFPPSDEQL peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&FIFPPSDEQL
Molecular Weight	The protein has a predicted MW of 35.6 kDa (HLA-A*02:01) 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

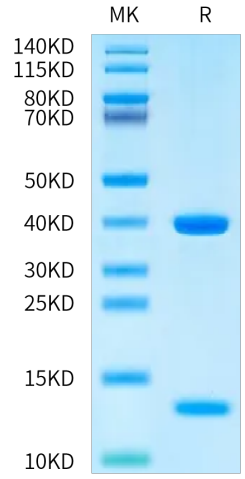
Formulation	Supplied as 0.22 μm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

IGKC (Immunoglobulin kappa constant) is a segment of the kappa light chain. This region is important for the stability and function of the antibody molecule, as it helps in the proper folding and assembly of the immunoglobulin. Additionally, the kappa constant region may also be involved in the interaction between the antibody and other immune system components.

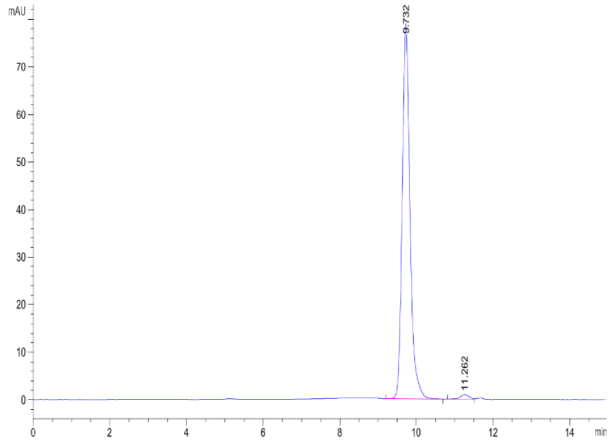
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



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

Human HLA-A*02:01&B2M&IGKC (FIFPPSDEQL) Monomer Protein

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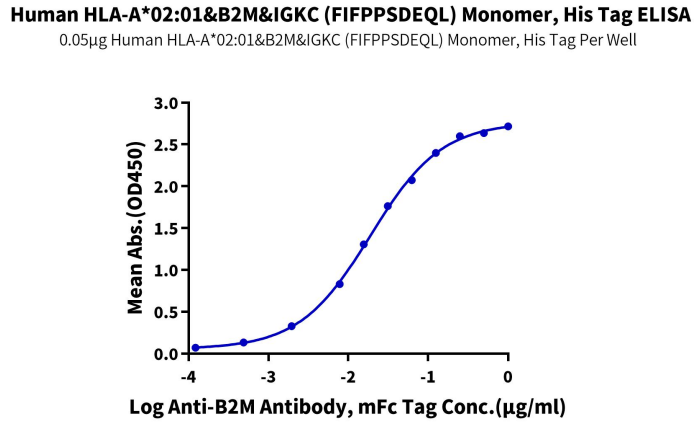
Assay Data

ELISA Data



Immobilized Human HLA-A*02:01&B2M&IGKC (FIFPPSDEQL) Monomer, His Tag at 0.5 μg/ml (100 μl/well) on the plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 18.9 ng/ml determined by ELISA.