Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) Monomer Protein

Cat. No. MHC-HE041

Description

Source	Recombinant Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) 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 TLIRWAILEA peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&TLIRWAILEA
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

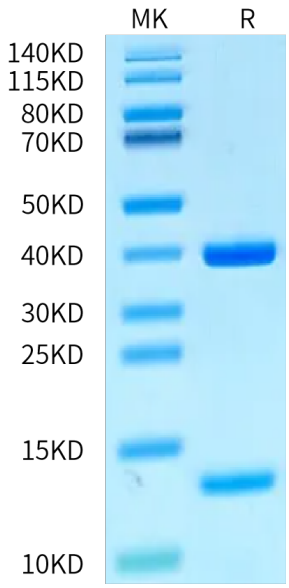
Formulation	Supplied as 0.22 μm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

TLIRWAILEA is position 344-353 of Foxp3 which is a member of a large forkhead family of related proteins. The peptide has minimal homology with other Foxp family members, such as Foxp1, 2 and 4, and it has also been shown to induce strong peptide-specific CD8+ T cell responses, which recognize Foxp3+/HLA-A*02:01+ cutaneous T lymphoma cells.

Assay Data

Bis-Tris PAGE



Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) Monomer Protein

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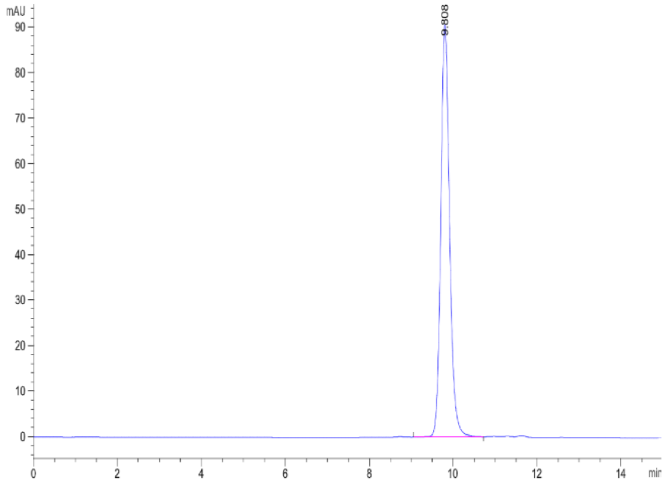
Assay Data

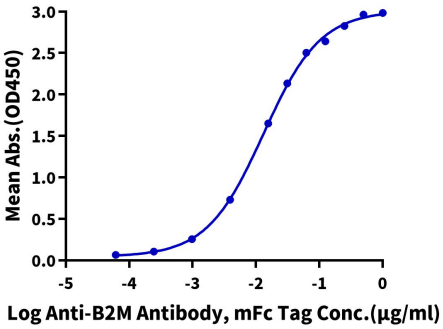


The purity of Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) Monomer is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) Monomer, His Tag ELISA

0.05μg Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) Monomer, His Tag Per Well



Immobilized Human HLA-A*02:01&B2M&Foxp3 (TLIRWAILEA) Monomer, His Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Anti-B2M Antibody, mFc Tag with the EC50 of 13.2ng/ml determined by ELISA.