Biotinylated Human HLA-A*02:01&B2M&CG1 (FLLPTGAEA) Monomer Protein

Cat. No. MHC-HE452B

Description

Source	Recombinant Biotinylated Human HLA-A*02:01&B2M&CG1 (FLLPTGAEA) 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 FLLPTGAEA peptide.
Accession	A0A140T913(HLA-A*02:01)&P61769(B2M)&FLLPTGAEA
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

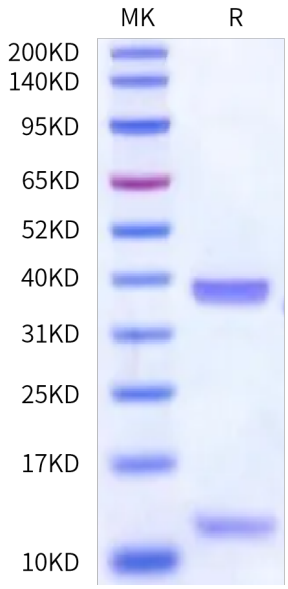
Formulation	Supplied as 0.22 μm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Cathepsin G (CG) is a myeloid azurophil granule protease that is highly expressed by acute myeloid leukemia (AML) blasts and leukemia stem cells. CG1 (FLLPTGAEA) is a human leukocyte antigen-A2-restricted nonameric peptide derived from CG that can act as an immunogenic target in AML.

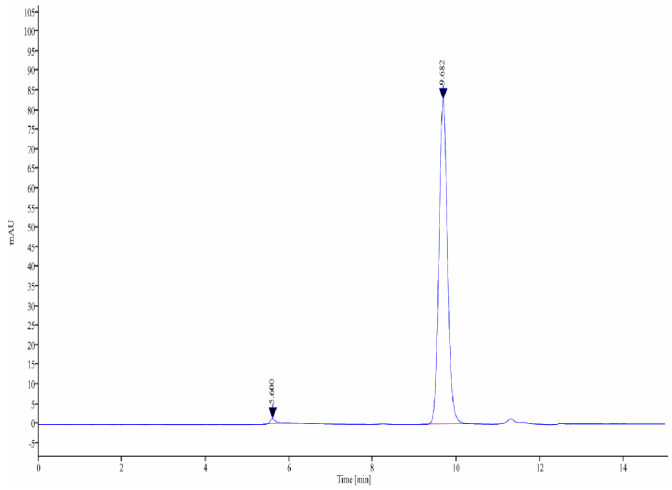
Assay Data

Bis-Tris PAGE



Biotinylated Human HLA-A*02:01&B2M&CG1 (FLLPTGAEA) Monomer on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human HLA-A*02:01&B2M&CG1 (FLLPTGAEA) Monomer is greater than 95% as determined by SEC-HPLC.