

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

Cat. No. MHC-HE452

## Description

<b>Source</b>	Recombinant 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.
<b>Accession</b>	A0A140T913(HLA-A*02:01)&P61769(B2M)&FLLPTGAEA
<b>Molecular Weight</b>	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.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

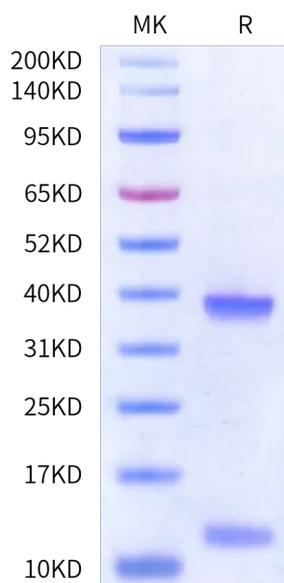
<b>Formulation</b>	Supplied as 0.22 µm filtered solution in 20mM Tris, 200mM NaCl (pH 8.0).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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.

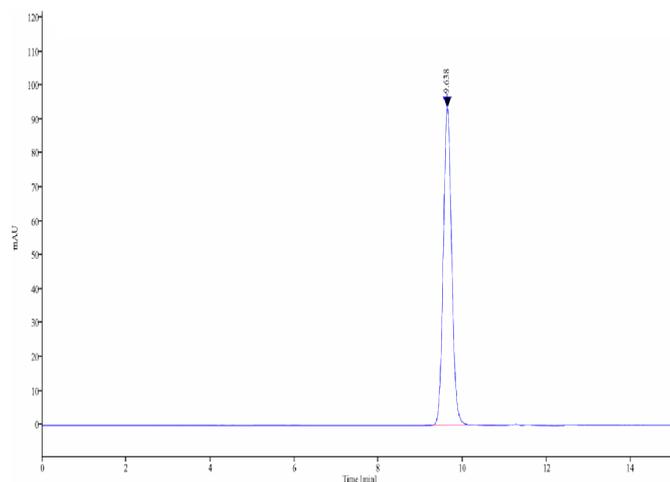
## Assay Data

### Bis-Tris PAGE



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