

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

### General Information

Synonyms:	CG1 (FLLPTGAEA)
Protein Construction:	Gly25-Thr305 (HLA-A*02:01), Ile21-Met119 (B2M) and FLLPTGAEA peptide
Species:	Human
Expression Host:	E. coli
Accession:	A0A140T913(HLA-A*02:01)&P61769(B2M)&FLLPTGAEA
Molecular Weight:	35.6 kDa (HLA-A*02:01) and 11.9 kDa (B2M)

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1 EU/μg of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μm filtered solution in 20 mM Tris, 200 mM NaCl (pH 8.0).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

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