

HLA-A\*02:01&B2M&NPM1-CLAV (CLAVEEVSL) Monomer Protein, Human, MHC (E. coli, His & Avi),

## General Information

Synonyms: NPM1-CLAV;CLAVEEVSL;NPM1-CLAV (CLAVEEVSL)  
Protein Construction: Gly25-Thr305 (HLA-A\*02:01), Ile21-Met119 (B2M) and CLAVEEVSL peptide  
Species: Human  
Expression Host: E. coli  
Accession: A0A140T913(HLA-A\*02:01)&P61769(B2M)&CLAVEEVSL  
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

The nucleophosmin (NPM1) mutant protein, a leukemia-associated antigen characterized by its leukemia-restricted expression and immunogenic potential, has emerged as a promising therapeutic target for acute myeloid leukemia (AML) immunotherapy. Among its immunogenic epitopes, the CLAVEEVSL peptide derived from the full C-terminal region of the NPM1-mutated isoform demonstrates potent immunogenicity, making it a prime candidate for T cell-based immunotherapies.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481