

# Human LY6E Protein

Cat. No. LYE-HM306

## Description

<b>Source</b>	Recombinant Human LY6E Protein is expressed from HEK293 with mFc (IgG1) tag at the C-terminus. It contains Leu21-Ser101.
<b>Accession</b>	Q16553
<b>Molecular Weight</b>	The protein has a predicted MW of 34.15 kDa. Due to glycosylation, the protein migrates to 40-48 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

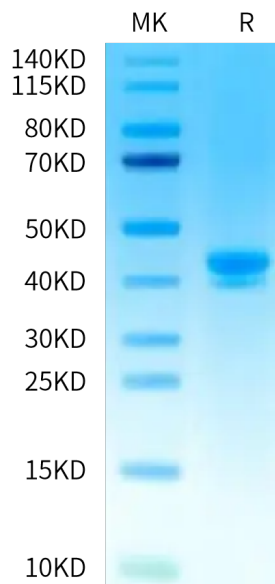
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Lymphocyte antigen 6 complex, locus E (LY6E), also designated as stem cell antigen 2 (SCA2) and thymic shared antigen-1 (TSA-1), is a member of the lymphostromal cell membrane Ly6 superfamily. All Ly6 family members are low-molecular weight (10-12 kDa) proteins that display limited nucleotide and amino acid sequence homologies with one another, but commonly have a conserved cysteine-rich cell surface domain and are anchored to the cell surface via a glycosylphosphatidylinositol (GPI) moiety.

## Assay Data

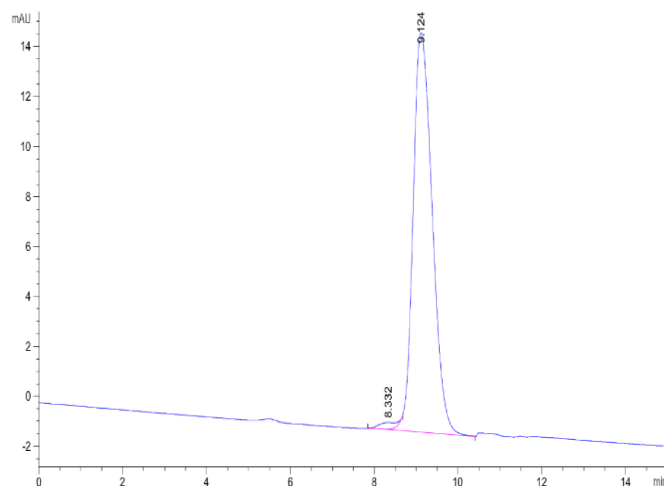
### Bis-Tris PAGE



Human LY6E on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

## Assay Data

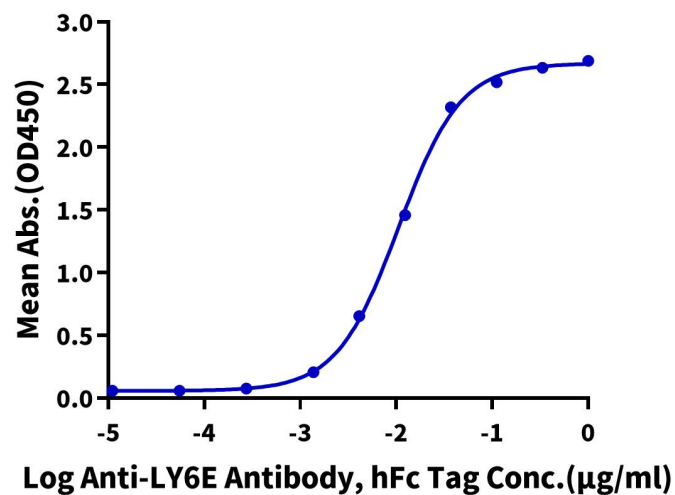


The purity of Human LY6E is greater than 95% as determined by SEC-HPLC.

## ELISA Data

**Human LY6E, mFc Tag ELISA**

0.1  $\mu\text{g}$  Human LY6E, mFc Tag Per Well



Immobilized Human LY6E, mFc Tag at 1  $\mu\text{g}/\text{ml}$  (100  $\mu\text{l}/\text{well}$ ) on the plate. Dose response curve for Anti-LY6E Antibody, hFc Tag with the EC50 of 10.6 ng/ml determined by ELISA.