# Human LY6E Protein

**Cat. No.** LYE-HM306

## Description

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|---|---|
| **Source** | Recombinant Human LY6E Protein is expressed from HEK293 with mFc (IgG1) tag at the C-terminus. |
| | It contains Leu21-Ser101. |
| **Accession** | Q16553 |
| **Molecular Weight** | 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. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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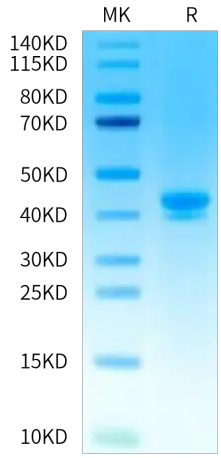
|---|---|
| **Formulation** | Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months 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 glycosilphosphatidylinositol (GPI) moiety.

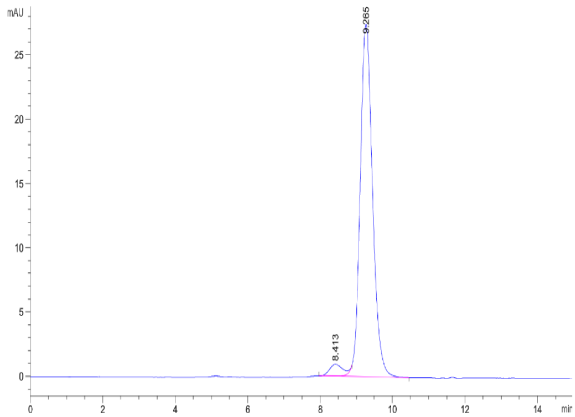
## Assay Data

**Bis-Tris PAGE**




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

**SEC-HPLC**




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

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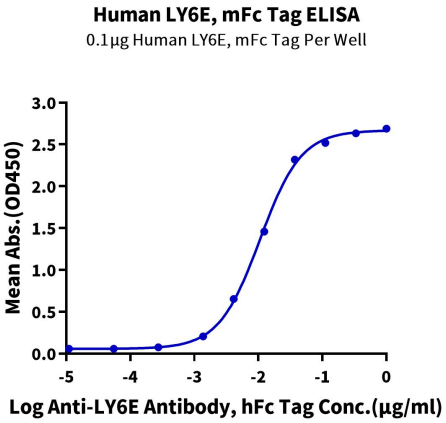
## Assay Data

### ELISA Data




Immobilized Human LY6E, mFc Tag at 1μg/ml (100μl/well) on the plate. Dose response curve for Anti-LY6E Antibody, hFc Tag with the EC50 of 10.6ng/ml determined by ELISA.