# Cynomolgus CD3E/CD3 epsilon Protein

**Cat. No.** CDE-CM201

## Description

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|---|---|
| **Source** | Recombinant Cynomolgus CD3E/CD3 epsilon Protein is expressed from HEK293 with hFc tag at the C-Terminus. |
| | It contains Gln22-Asp117. |
| **Accession** | Q95LI5-1 |
| **Molecular Weight** | The protein has a predicted MW of 36.9 kDa. Due to glycosylation, the protein migrates to 43-48 kDa based on Tris-Bis PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Tris-Bis PAGE |

## Formulation and Storage

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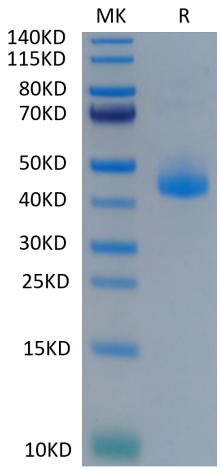
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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

CD3E, is a single-pass type I membrane protein.CD3 (cluster of differentiation 3) T cell co-receptor helps to activate both the cytotoxic T cell (CD8 naive T cells) and also T helper cells (CD4 naive T cells). It consists of a protein complex and is composed of four distinct chains. In mammals, the complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains.

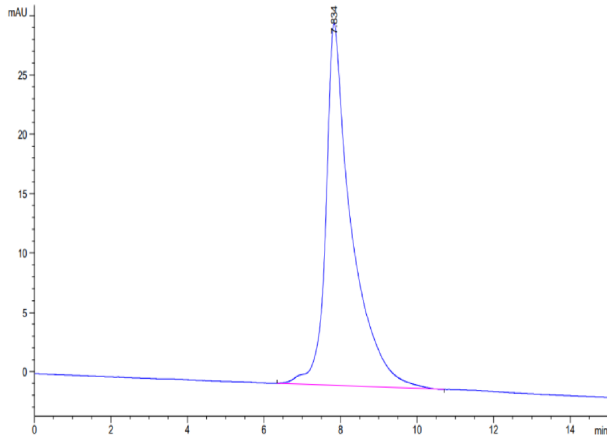
## Assay Data

### Tris-Bis PAGE




Cynomolgus CD3E on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC




The purity of Cynomolgus CD3E is greater than 95% as determined by SEC-HPLC.

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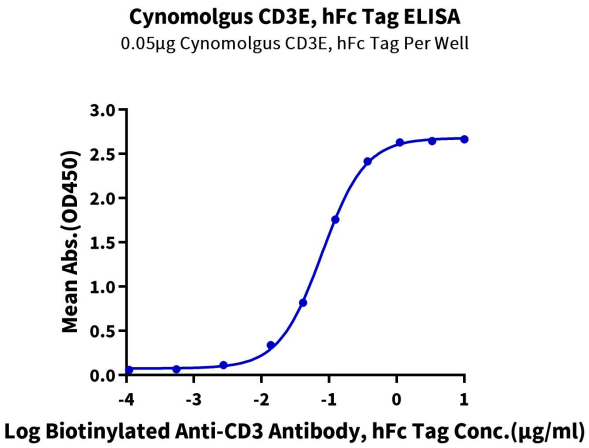
## Assay Data

### ELISA Data




Immobilized Cynomolgus CD3E, hFc Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Anti-CD3E Antibody, hFc Tag with the EC50 of 78.8ng/ml determined by ELISA.