

# Recombinant Cynomolgus CD3 epsilon/CD3E Protein

Catalog No.: RP02214 **Recombinant**

## Sequence Information

**Species** Cynomolgus  
**Gene ID** 102133065  
**Swiss Prot** Q95LI5-1

### Tags

C-His

### Synonyms

CD3ε; CD3E; T3E; FLJ18683; TCRE; CD3-epsilon; IMD18

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by Bis-Tris PAGE. > 95% as determined by HPLC

### Endotoxin

< 1EU per µg by the LAL method.

### Formulation

Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## 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.

## Basic Information

### Description

Recombinant Cynomolgus CD3 epsilon/CD3E Protein is produced by mammalian expression system. The target protein is expressed with sequence (Gln22-Asp117) of cynomolgus Cynomolgus CD3 Epsilon (Accession #) fused with a His tag at the C-terminus.

### Bio-Activity

Immobilized Cyno CD3 epsilon at 1 µg/mL (100 µL/Well). Dose response curve for Anti-CD3 Ab. with the EC<sub>50</sub> of 0.2 µg/mL determined by ELISA.

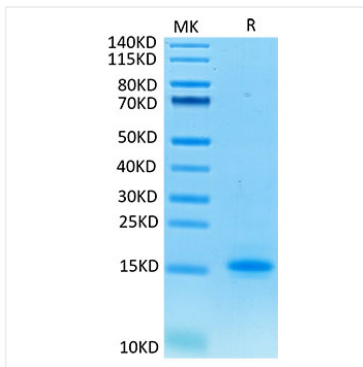
### Storage

Store the lyophilized protein at -20°C to -80°C for long term.

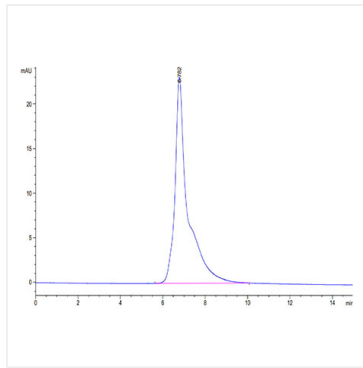
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

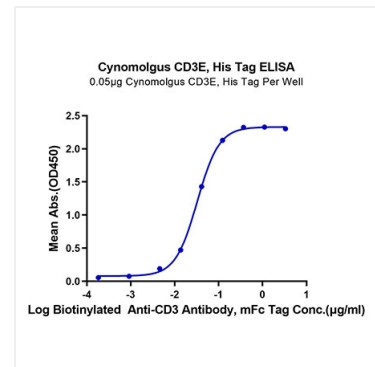
## Validation Data



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



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



Immobilized Cynomolgus CD3E, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, mFc Tag with the  $EC_{50}$  of 32.7ng/ml determined by ELISA.