

# Recombinant Human CD3 epsilon Protein

Catalog No.: RP00601 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	916	P07766

### Tags

C-hFc

### Synonyms

CD3e; CD3E; T3E; FLJ18683; TCRE; CD3-epsilon; IMD18

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE

Calculated MW	Observed MW
36.1 kDa	35-55 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method

### 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 vial 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

T-cell surface glycoprotein CD3 epsilon & CD3 gamma chain, also known as CD3E & CD3G, are single-pass type I membrane proteins. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain.

## Basic Information

### Description

Recombinant Human CD3 epsilon Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Asp126) of Human CD3 epsilon (Accession #P07766) fused with a C-hFc tag at the C-terminus.

### Bio-Activity

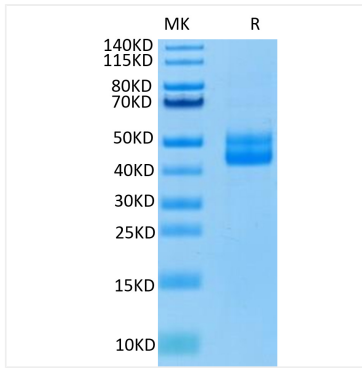
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

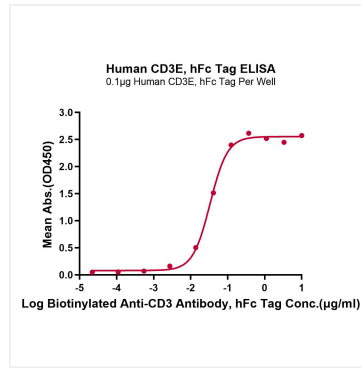
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data



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



Immobilized Human CD3E, hFc Tag at 1  $\mu$ g/mL (100  $\mu$ L/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, hFc Tag with the EC<sub>50</sub> of 33.5ng/mL determined by ELISA (QC Test).