

# Recombinant Human CD3E&CD3G Protein

Catalog No.: RP02217 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	916&917	P07766 & P09693

### Tags

C-hFc&amp;Avi

### Synonyms

CD3; CD3G; CD3g; T3G; CD3e; CD3E;  
CD3 epsilon&CD3 gamma; CD3E&CD3G

## Product Information

### Source

HEK293 cells

### Purification

&gt; 95% as determined by Bis-Tris PAGE. &gt; 95% as determined by HPLC.

### Endotoxin

&lt; 0.1EU per µg by the LAL method.

### Formulation

Lyophilized from 0.22µm filtered solution in 20mM PB (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

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 CD3E&CD3G Heterodimer Protein is produced by mammalian expression system. The target protein is expressed with sequence (Asp23-Asp126(CD3E) & Gln23-Ser116(CD3G)) of human CD3 epsilon & CD3 gamma Heterodimer (Accession #) fused with a Avi Tag at the C-terminal. .

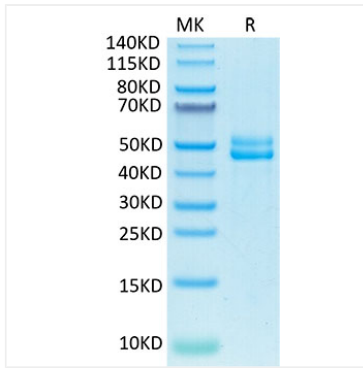
### Bio-Activity

Immobilized Biotinylated Human CD3E/CD3G, Fc Tag at 0.5 µg/mL (100 µL/Well) on Streptavidin precoated (0.2 µg/mL) plate. Dose response curve for Anti-CD3 Ab. with the EC<sub>50</sub> of 22.4 ng/mL determined by ELISA.

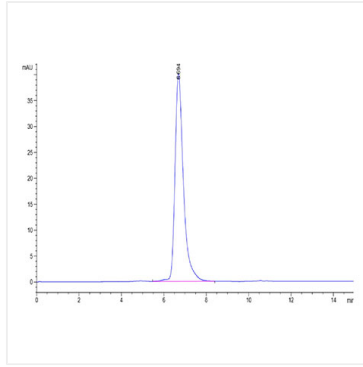
### Storage

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.

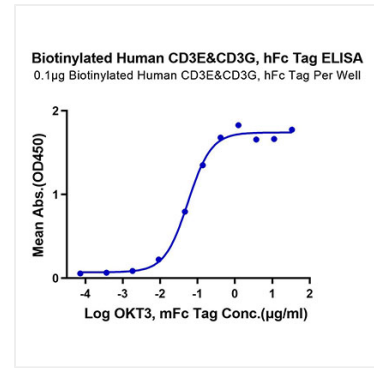
## Validation Data



Biotinylated CD3E&CD3G on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human CD3E&CD3G is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human CD3E&CD3G, hFc Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for OKT3, mFc Tag with the EC<sub>50</sub> of 55.2ng/ml determined by ELISA.