

# Recombinant Human CD3E&CD3D Protein

Catalog No.: RP02024 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	916&915	P07766 & P04234

### Tags

C-hFc

### Synonyms

CD3-DELTA; IMD19; T3D;IMD18; T3E; TCRE

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

### 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

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Background

T-cell surface glycoprotein CD3 epsilon & CD3 delta chain, also known as CD3E & CD3D, 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 BAFFR Protein is produced by mammalian expression system. The target protein is expressed with sequence (Asp23-Asp126 (CD3E) & Phe22-Ala105 (CD3D)) of human CD3 epsilon & CD3 delta Heterodimer (Accession #P07766 & P04234) fused with an Fc tag at the C-terminus.

### Bio-Activity

Immobilized Human CD3 epsilon & CD3 delta Heterodimer Protein at 0.5 μg/mL (100 μL/well), dose response curve for Anti-hCD3e mAb with the EC<sub>50</sub> of 21.69 ng/mL determined by ELISA

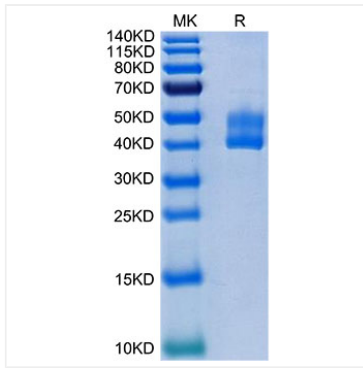
### Storage

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

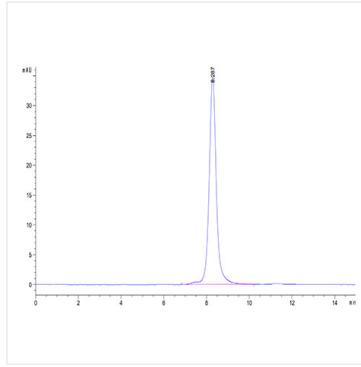
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

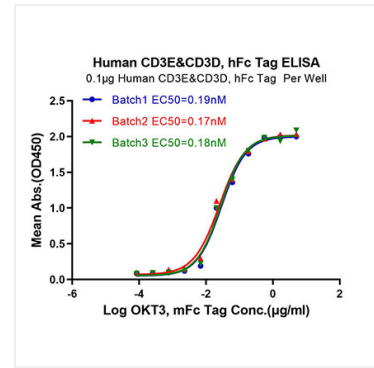
## Validation Data



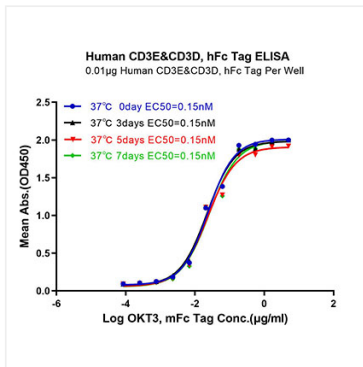
Human CD3E&CD3D on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



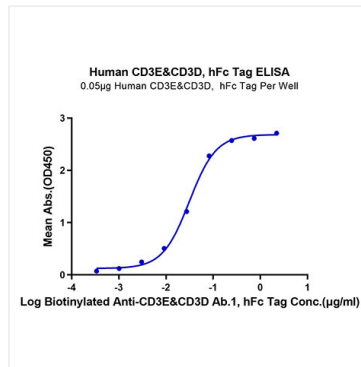
The purity of Human CD3E&CD3D was greater than 95% as determined by SEC-HPLC.



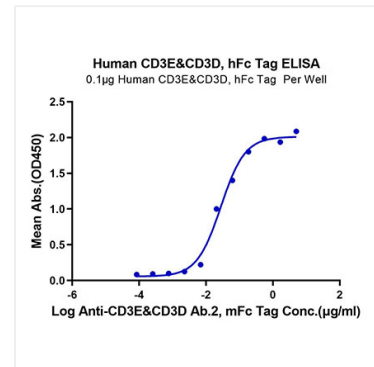
Immobilized Human CD3E&CD3D, hFc Tag at 1µg/ml (100µl/Well). Dose response curve for Anti-CD3E&CD3D Ab., mFc Tag (OKT3) with the EC<sub>50</sub> of 28.8/25.5/27.8ng/ml determined by ELISA.



Immobilized Human CD3E&CD3D, hFc Tag at 1µg/ml (100µl/Well). Dose response curve for Anti-CD3E&CD3D Ab., mFc Tag (OKT3) with the EC<sub>50</sub> of 23.8/22.6/23.5/22.8ng/ml determined by ELISA.



Immobilized Human CD3E&CD3D, hFc Tag at 0.05µg/ml (100µl/Well). Dose response curve for Biotinylated Anti-CD3E&CD3D Ab.1, hFc Tag with the EC<sub>50</sub> of 31.68ng/ml determined by ELISA.



Immobilized Human CD3E&CD3D, hFc Tag at 0.1µg/ml (100µl/Well). Dose response curve for Anti-CD3E&CD3D Ab.2, mFc Tag with the EC<sub>50</sub> of 27.0ng/ml determined by ELISA.