

RP00623B

Leader in Biomolecular Solutions for Life Science



# Biotinylated Recombinant Human CD3E&CD3D Protein (Primary Amine Labeling)

Catalog No.: RP00623B

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	916&915	P07766(CD3E)&P04234(CD3D)

### Tags

C-His

### Synonyms

CD3; CD3e; CD3E; CD3d; T3D; CD3D; CD3E&CD3D; CD3 delta&CD3 epsilon

## Product Information

### Source

### Purification

≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

### 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 freeze-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## 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

Biotinylated Recombinant Human CD3E&CD3D/CD3 epsilon&CD3 delta Protein (Primary Amine Labeling) is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Glu120(CD3E) & Phe22-Ala105(CD3D)) of Human CD3E&CD3D/CD3 epsilon&CD3 delta (Primary Amine Labeling) (Accession #P07766(CD3E)&P04234(CD3D)) fused with a C-His tag at the C-terminus.

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

### Storage

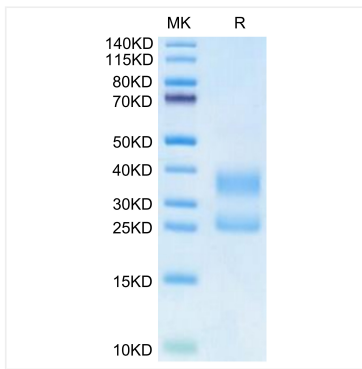
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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

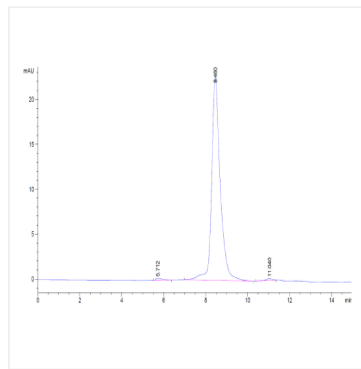
Avoid repeated freeze/thaw cycles.

\* For your safety and health, please wear a lab coat and disposable gloves when handling.

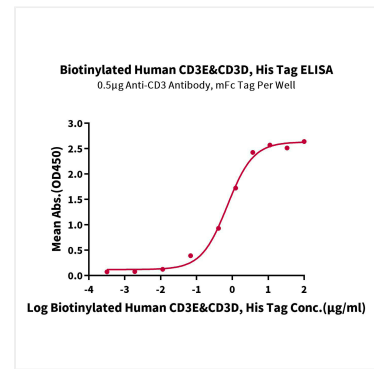
## Validation Data



Biotinylated Recombinant Human CD3E&CD3D Protein (Primary Amine Labeling) was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Anti-CD3 Antibody, mFc Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human CD3E&CD3D, His Tag with the EC<sub>50</sub> of 0.72 µg/mL determined by ELISA.