

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

Catalog No.: RP00623B Recombinant

# **Sequence Information**

 Species
 Gene ID
 Swiss Prot

 Human
 916&915
 P07766(CD3

 E)&P04234(CD3D)
 D3D)

**Tags** C-His

**Synonyms** 

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

# **Product Information**

Source

Purification

HEK293 cells  $\geq$  95 % as

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

#### Calculated MW Observed MW

17.9 kDa 25-40 kDa (CD3E),16.7 kDa (CD3D)

# **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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## **Contact**

# 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.

# 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.

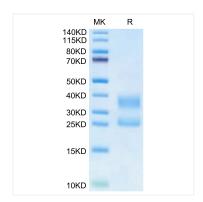
Avoid repeated freeze/thaw cycles.

### **Operational Notes**

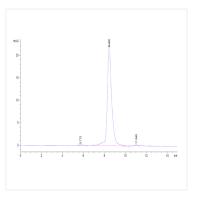
For your safety and health, please wear a lab coat and disposable gloves for handling.

2	400-999-6126
$\sim$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

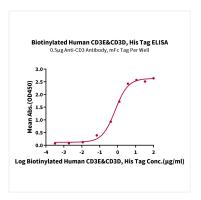
# **Validation Data**



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  $\mu$ g/mL (100  $\mu$ L/well) on the plate. Dose response curve for Biotinylated Human CD3E&CD3D, His Tag with the EC<sub>50</sub> of 0.72  $\mu$ g/mL determined by ELISA.