

Biotinylated Recombinant Cynomolgus CD3E&CD3D Protein (Primary Amine Labeling)

Catalog No.: RP02748B Recombinant

Sequence Information

Species Gene ID Swiss Prot Cynomolgus Q95LI5.2(CD

Q95LI5.2(CD 3E)&Q95LI8(CD3D)

Tags

C-hFc

Synonyms

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

Product Information

Source Purification

HEK293 cells \geq 95 % as determined by Tris-Bis PAGE; \geq 95 % as

determined by HPLC.

Calculated MW Observed MW

36.9 kDa (CD3E), 58-62 kDa(CD3E), 35.4 kDa (CD3D) 44-46 kDa (CD3D)

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

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 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

<u>a</u>	400-999-6126
\Join	cn.market@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

Biotinylated Recombinant Cynomolgus CD3E&CD3D Protein (Primary Amine Labeling) is produced by Expi293 expression system. The target protein is expressed with sequence (Gln22-Asp117(CD3E)&Phe22-Ala105(CD3D)) of Cynomolgus CD3E&CD3D fused with a hFc tag at the C-terminal.

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.

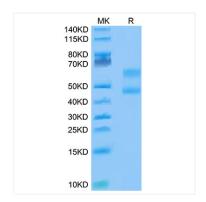
After reconstitution, the protein solution is stable at -20 $^{\circ}\text{C}$ for 3 months, at 2-8 $^{\circ}\text{C}$ for up to 1 week.

Avoid repeated freeze/thaw cycles.

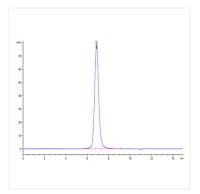
Operational Notes

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

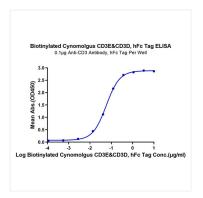
Validation Data



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



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



Immobilized Anti-CD3, hFc Tag Antibody at $5\mu g/ml$ ($100\mu l/well$) on the plate. Dose response curve for Biotinylated Cynomolgus CD3E&CD3D, hFc Tag with the EC₅₀ of 58.2 ng/ml determined by ELISA.