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

Catalog No.: RP02748B Recombinant

Sequence Information

Species
Cynomolgus

Gene ID

Swiss Prot
Q95LI5.2(CD3E)&Q95LI8(CD3D)

Tags
C-hFc

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

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW
36.9 kDa (CD3E), 35.4 kDa (CD3D)

Observed MW
58-62 kDa(CD3E), 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

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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

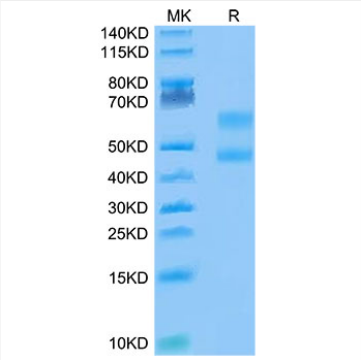
Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃. Store the lyophilized protein at -20℃ to -80℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

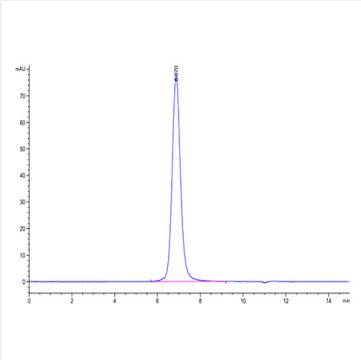
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

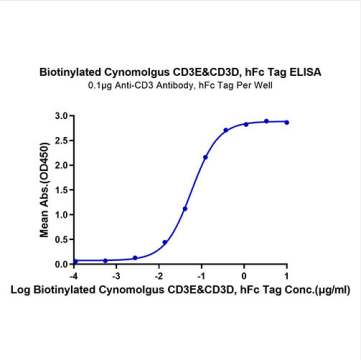
Validation Data



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 5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Cynomolgus CD3E&CD3D, hFc Tag with the EC_{50} of 58.2ng/ml determined by ELISA.