

Recombinant Cynomolgus CD3E&CD3D Protein

Catalog No.: RP02061 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	102133065 & 102133701	Q95LI5.2 & Q95LI8

Tags
C-hFc

Synonyms

CD3E&CD3D;CD3 epsilon&CD3 delta

Product Information

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

Endotoxin

< 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

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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

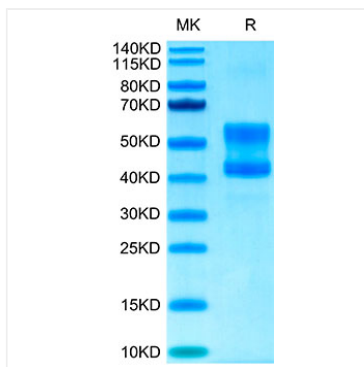
Recombinant Cynomolgus CD3E&CD3G Protein is produced by mammalian expression system. The target protein is expressed with sequence (Asp20-Arg687 (Q95LI52) & Phe22-Ala105 (Q95LI8)) of cynomolgus CD3E&CD3D (Accession #Q95LI5.2 & Q95LI8) fused with an Fc tag at the C-terminus.

Bio-Activity

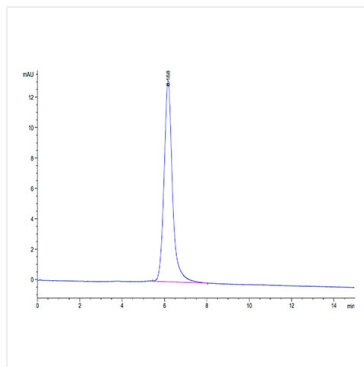
Storage

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.

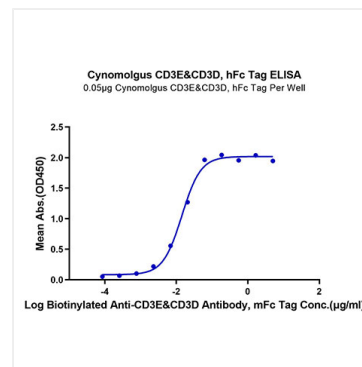
Validation Data



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



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



Immobilized Cynomolgus CD3E&CD3D, hFc Tag at 0.5µg/ml (100µl/Well). Dose response curve for Biotinylated Anti-CD3E&CD3D Antibody, mFc Tag with EC_{50} of 13.9ng/ml determined by ELISA.