

RP02216

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Biotinylated Recombinant Human CD3E&CD3D Heterodimer Protein

Catalog No.: RP02216

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	916&915	P07766 & P04234

Tags

C-hFc&Avi

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Bis-Tris PAGE.> 95% as determined by HPLC

Endotoxin

< 0.05EU per µg by the LAL method.

Formulation

Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

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.

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 Biotinylated Recombinant Human CD3E&CD3D Heterodimer Protein is produced by mammalian expression system. The target protein is expressed with sequence (Asp23-Asp126(CD3E) & Phe22-Ala105(CD3D)) of human CD3 epsilon & CD3 delta Heterodimer (Accession #) fused with a Fc and Avi Tag at the C-terminal. .

Bio-Activity

Storage

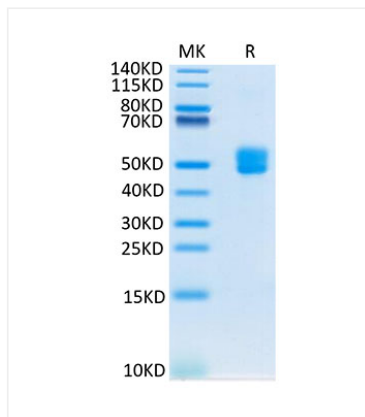
Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

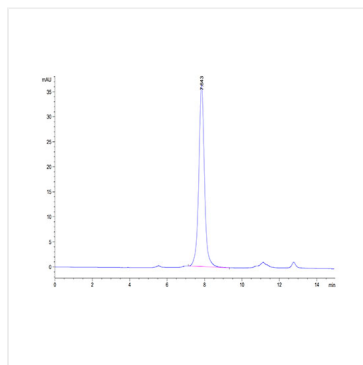


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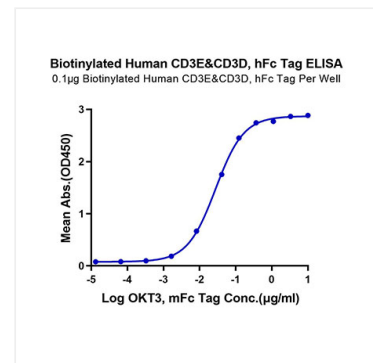
Validation Data



Biotinylated Human CD3E&CD3D on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Immobilized Biotinylated Human CD3E&CD3D, hFc Tag at 1μg/ml (100μl/Well) on streptavidin (5μg/ml) precoated plate. Dose response curve for OKT3, mFc Tag with the EC_{50} of 27.7ng/ml determined by ELISA.