

Recombinant Human CD3E&CD3D Protein

Catalog No.: RP00623 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	916&915	P07766(CD3E)&P04234(CD3D)

Tags

C-His

Synonyms

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

Product Information

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

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

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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 Human CD3E&CD3D/CD3 epsilon&CD3 delta Protein 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 (Accession #P07766(CD3E)&P04234(CD3D)) fused with a C-His tag at the C-terminus.

Bio-Activity

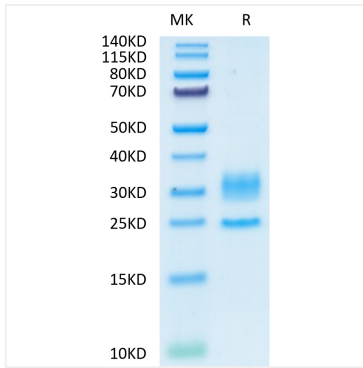
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

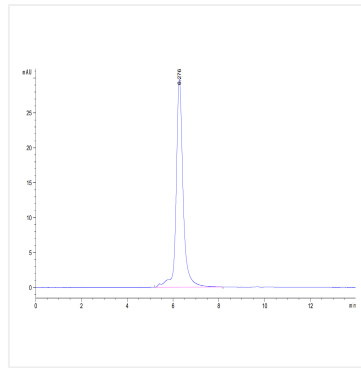
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

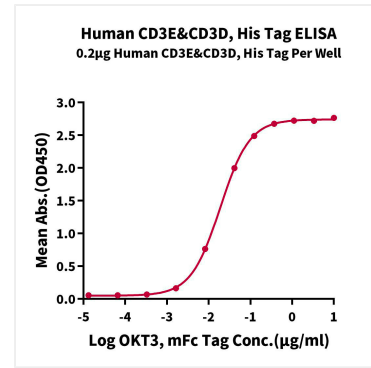
Validation Data



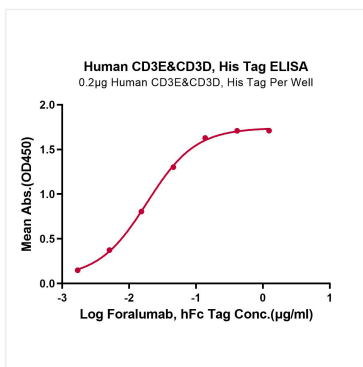
Human CD3E&CD3D on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



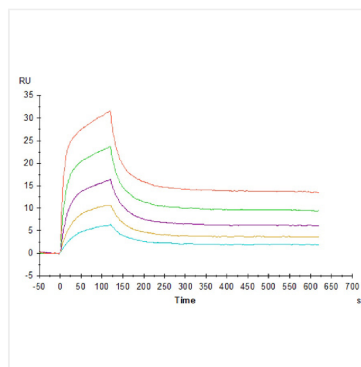
The purity of Human CD3E&CD3D was greater than 95% as determined by SEC-HPLC.



Immobilized Human CD3E&CD3D at 2 µg/mL (100 µL/Well) on the plate. Dose response curve for OKT3, mFc Tag with the EC₅₀ of 18.9ng/mL determined by ELISA (QC Test).



Immobilized Human CD3E&CD3D at 2ug/mL (100 µL/Well). Dose response curve for Foralumab, hFc Tag with the EC₅₀ of 18.5ng/mL determined by ELISA.



Human CD3E&CD3D, His Tag captured on CM5 Chip via Anti-His Antibody can bind OKT3, mFc Tag with an affinity constant of 0.36nM as determined in SPR assay (Biacore T200).