

Recombinant Human CD3E&CD3D Protein

Catalog No.: RP00623

Sequence Information

Species **Gene ID**
Human 916&915

Swiss Prot **Tags**
P07766(CD3E) C-His
&P04234(CD3D)

Synonyms

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

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as
determined by
SDS-PAGE; ≥ 95
% as determined
by HPLC.

Calculated MW Observed MW

17.9 kDa (CD3E), 28-38 kDa
16.7 kDa (CD3D) (CD3E), 25 kDa
(CD3D)

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.

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.

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°C

Operational Notes

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

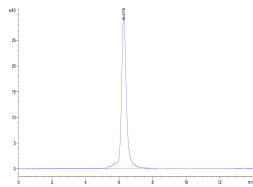
Contact

☎ | 400-999-6126

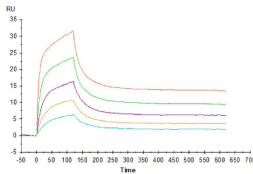
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🌐 | www.abclonal.com.cn

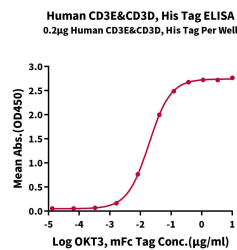
Validation Data



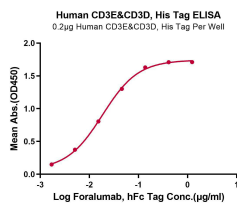
The purity of Human CD3E&CD3D was greater than 95% as determined by SEC-HPLC.



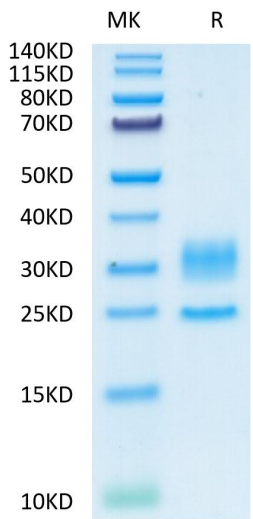
Human CD3E&CD3D, His Tag captured on CM5 Chip via Anti-His Antibody can bind OKT3, mFc Tag with an affinity constant of 0.36nM as determined in SPR assay (Biacore T200).



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.



Recombinant Human CD3E&CD3D Protein was determined by Tris-Bis PAGE under reducing conditions.