Recombinant Human CD3E&CD3G Protein

Catalog No.: RP00582

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Sequence Information

Species
Human

Gene ID
916&917

Swiss Prot
P07766(CD3E) &P09693(CD3G)

Tags
C-hFc

Synonyms
CD3; CD3G; CD3g; T3G; CD3e; CD3E; CD3 epsilon&CD3 gamma; CD3E&CD3G

Product Information

Source
HEK293 cells

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

Calculated MWObserved MW
37.8 kDa (CD3E) 45-60 kDa , 36.5 kDa (CD3G)

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 stablizer (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 gamma chain, also known as CD3E & CD3G , 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&CD3G/CD3 epsilon&CD3 gamma Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Asp126(CD3E) & Gln23-Ser116(CD3G)) of Human CD3E&CD3G/CD3 epsilon&CD3 gamma (Accession #P07766(CD3E)&P09693 (CD3G)) fused with a C-hFc 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℃

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

Contact

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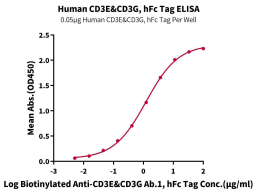
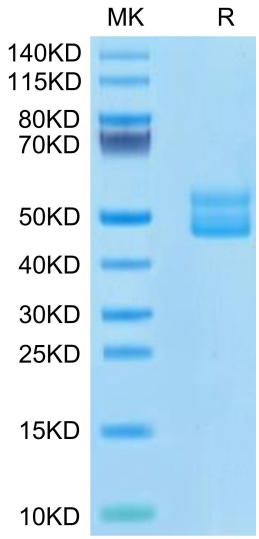
For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

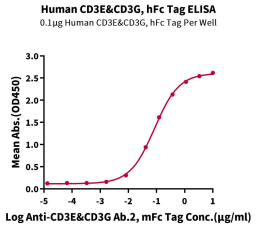
Validation Data



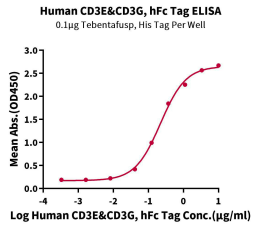
Immobilized Human CD3E&CD3G, hFc Tag at 0.5 μg/mL (100 μL/Well). Dose response curve for Biotinylated Anti-CD3E&CD3G Ab.1, hFc Tag with the EC_{50} of 1.22 ug/mL determined by ELISA.



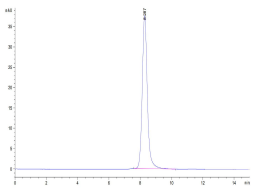
Recombinant Human CD3E&CD3G Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Human CD3E&CD3G, hFc Tag at 1 μg/mL (100 μL/Well). Dose response curve for Anti-CD3E&CD3G Ab.2, mFc Tag with the EC_{50} of 20.7ng/mL determined by ELISA (QC Test).



Immobilized Tebentafusp, His Tag at 1 μg/mL (100 μL/well) on the plate. Dose response curve for Human CD3E&CD3G, hFc Tag with the EC_{50} of 0.22 μg/mL determined by ELISA.



The purity of Human CD3E&CD3G/CD3 Epsilon&CD3 Gamma was greater than 95% as determined by SEC-HPLC.