

Recombinant Human CD3E&CD3G Protein

Catalog No.: RP00415

Sequence Information

Species **Gene ID**
Human 916&917

Swiss Prot **Tags**
P07766(CD3E) C-His
&P09693(CD3G)

Synonyms

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

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), 25-40 kDa
17.9 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 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 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-Glu120(CD3E) & Gln23-Asn106(CD3G)) of Human CD3E&CD3G/CD3 epsilon&CD3 gamma (Accession #P07766(CD3E)&P09693(CD3G)) 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.

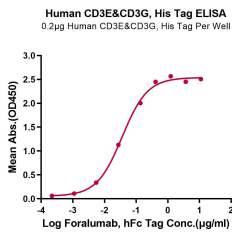
Contact

☎ | 400-999-6126

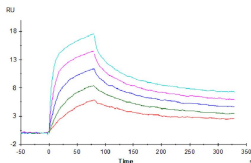
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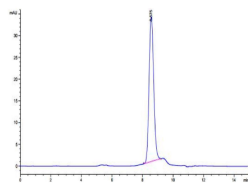
Validation Data



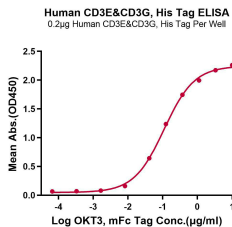
Immobilized Human CD3E&CD3G, His Tag at 2 µg/mL (100 µL/Well) on the plate.
Dose response curve for Foralumab, hFc Tag with the EC₅₀ of 36.2ng/mL determined by ELISA.



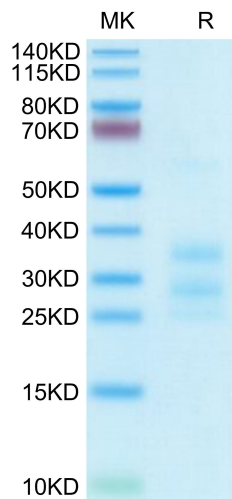
Human CD3E&CD3G, His Tag captured on CM5 Chip via Anti-His Antibody can bind OKT3, mFc Tag with an affinity constant of 0.22nM as determined in SPR assay (Biacore T200).



The purity of Human CD3E&CD3G is greater than 95% as determined by SEC-HPLC.



Immobilized Human CD3E&CD3G, His Tag at 2 µg/mL (100 µL/Well) on the plate.
Dose response curve for OKT3, mFc Tag with the EC₅₀ of 110.2ng/mL determined by ELISA (QC Test).



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