



### Synonym

CD3 epsilon & CD3 gamma,CD3E & CD3G

### Source

Biotinylated Cynomolgus CD3E&CD3G Heterodimer Protein, His,Avitag&Flag Tag(CDG-C8219) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Asp 117 (CD3E) & Gln 23 - Thr 113 (CD3G) (Accession # [Q95LI5-1](#) (CD3E) & [Q95LI7-1](#) (CD3G)).

Predicted N-terminus: Gln 22 (CD3E) & Gln 23 (CD3G)

### Molecular Characterization

CD3E(Gln 22 - Asp 117) Q95LI5-1	Poly-his	Avi
CD3G(Gln 23 - Thr 113) Q95LI7-1	Flag	

Biotinylated Cynomolgus CD3E&CD3G Heterodimer Protein, His,Avitag&Flag Tag is produced by co-expression of CD3E and CD3G, has a calculated MW of 17.7 kDa (CD3E) and 15.4 kDa (CD3G). Subunit CD3E carries a polyhistidine tag at the C-terminus, followed by an Avi tag and subunit CD3G is fused with a flag tag at the C-terminus. As a result of glycosylation, the protein migrates as 19-20 kDa and 22-24 kDa under reducing (R) condition, and 35-40 kDa under non-reducing (NR) condition (SDS-PAGE).

### Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

### Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

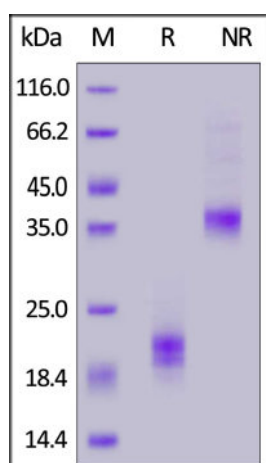
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

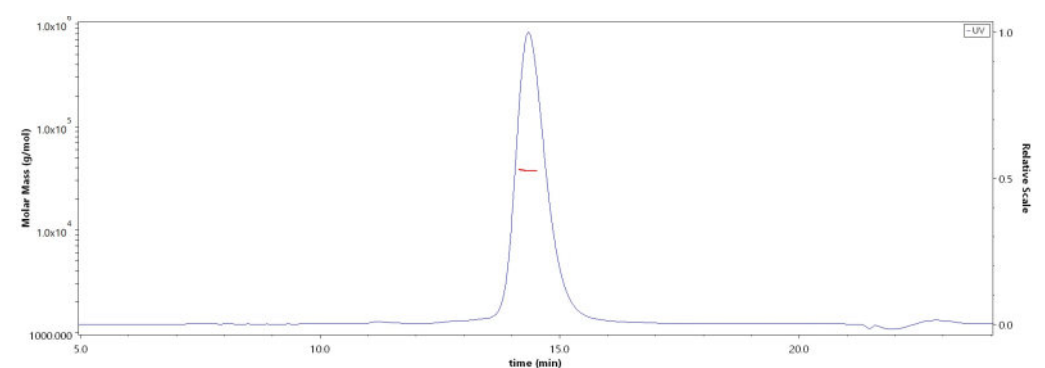
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



Biotinylated Cynomolgus CD3E&CD3G Heterodimer Protein, His,Avitag&Flag Tag on SDS-PAGE under reducing (R) and non-reducing

### SEC-MALS



The purity of Biotinylated Cynomolgus CD3E&CD3G Heterodimer Protein, His,Avitag&Flag Tag (Cat. No. CDG-C8219) is more than 90% and the

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and more!



# Biotinylated Cynomolgus CD3E&CD3G Heterodimer Protein, His,Avitag™&Flag Tag (MALS verified)

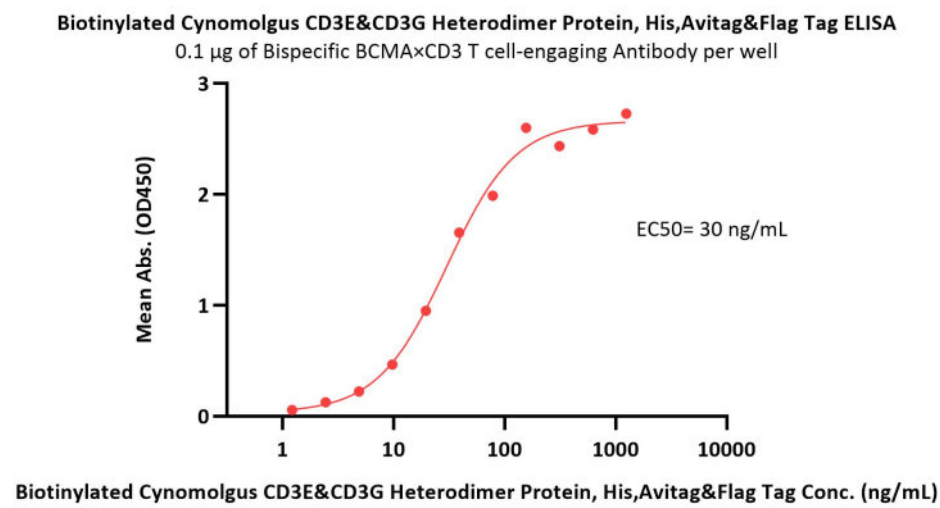
Catalog # CDG-C8219



(NR) conditions. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

molecular weight of this protein is around 33-48kDa verified by SEC-MALS. [Report](#)

## Bioactivity-ELISA



Immobilized Bispecific BCMA×CD3 T cell-engaging Antibody at 1 µg/mL (100 µL/well) can bind Biotinylated Cynomolgus CD3E&CD3G Heterodimer Protein, His,Avitag&Flag Tag (Cat. No. CDG-C8219) with a linear range of 2.4-78 ng/mL (QC tested).

## Background

T-cell surface glycoprotein CD3 delta & CD3 gamma chain, also known as CD3D & CD3G or CD3D&CD3G respectively, are single-pass type I membrane proteins. CD3D, together with CD3- epsilon(CD3E), CD3-gamma and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. T cell receptor-CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

## Clinical and Translational Updates

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