

# Biotinylated Human CD3E&CD3G/CD3 epsilon&CD3 gamma Protein (Primary Amine Labeling)



Cat. No. CD3-HM157B

## Description

<b>Source</b>	Recombinant Biotinylated Human CD3E&CD3G/CD3 epsilon&CD3 gamma Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-Terminus. It contains Asp23-Glu120(CD3E) & Gln23-Asn106(CD3G).
<b>Accession</b>	P07766(CD3E)&P09693(CD3G)
<b>Molecular Weight</b>	The protein has a predicted MW of 17.9 kDa (CD3E) and 17.9 kDa (CD3G). Due to glycosylation, the protein migrates to 25-40 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

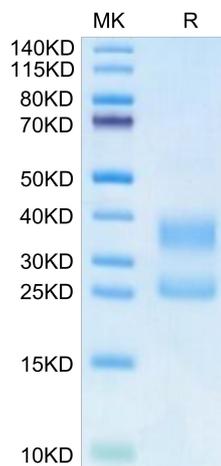
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

## Assay Data

### Tris-Bis PAGE



Biotinylated Human CD3E&CD3G on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

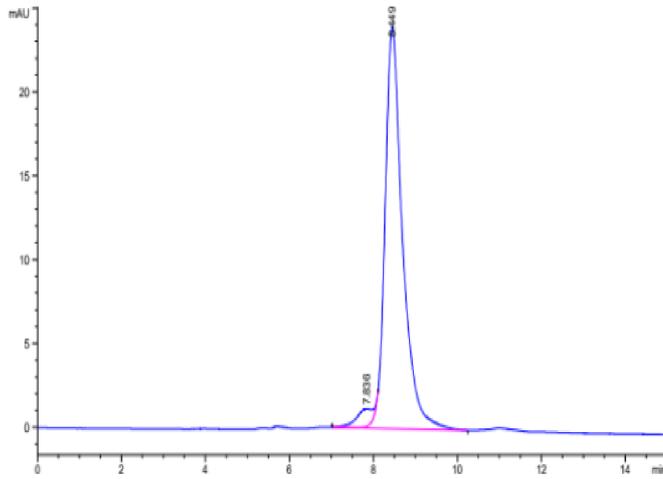
### SEC-HPLC

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## Assay Data

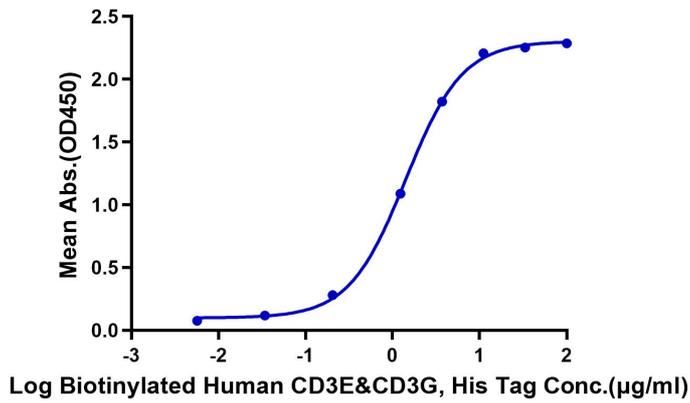


The purity of Biotinylated Human CD3E&CD3G is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Biotinylated Human CD3E&CD3G, His Tag ELISA

0.5µg Anti-CD3 Antibody, mFc Tag Per Well



Immobilized Anti-CD3 Antibody, mFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human CD3E&CD3G, His Tag with the EC50 of 1.42µg/ml determined by ELISA.