

# Human CD3E & CD3G Heterodimer recombinant protein



Catalog Number: 501757

## General Information

### Gene Name Synonym

T-cell surface antigen T3/Leu-4 epsilon chain

### Protein Construction

A DNA sequence encoding the extracellular domain (Met1-Asp126) of human CD3E (NP\_000724.1) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Ser116) of human CD3G (NP\_000064.1) was fused the Fc region of mouse IgG1 at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3E/CD3G heterodimer was purified.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its ability to bind OKT3-mIgG2a in a functional ELISA.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Asp 23 & Gln 23

### Molecular Mass

The recombinant heterodimer of human CD3E/CD3G comprises 683 (355+328) amino acids and has a calculated molecular mass of 77.2 (40.1+37.1) KDa. As a result of glycosylation, the apparent molecular mass of human CD3E/CD3G heterodimer is approximately 42-47 KDa in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

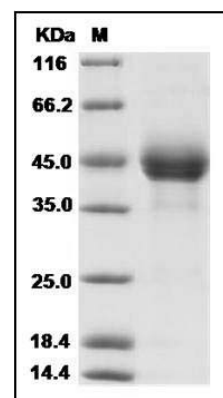
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



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