

# Human CD3E/CD3 epsilon Protein

Cat. No. CD3-HM20E

## Description

<b>Source</b>	Recombinant Human CD3E/CD3 epsilon Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Asp23-Asp126(C119S, C122S).
<b>Accession</b>	P07766
<b>Molecular Weight</b>	The protein has a predicted MW of 36.1 kDa. Due to glycosylation, the protein migrates to 35-55 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

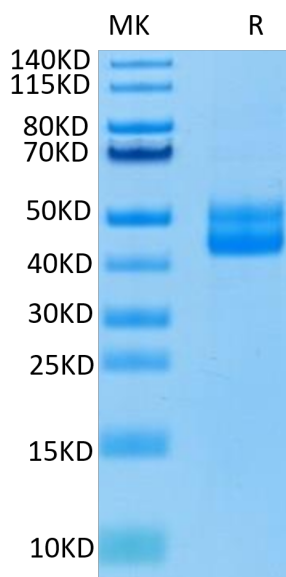
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months 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

### Bis-Tris PAGE



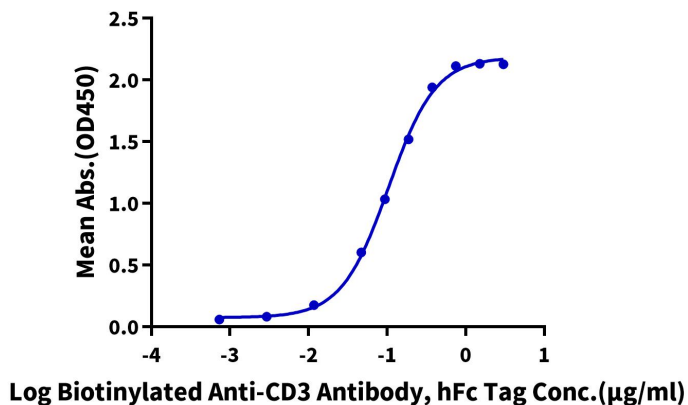
Human CD3E on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Assay Data

**Human CD3E, hFc Tag ELISA**

0.2µg Human CD3E, hFc Tag Per Well



Immobilized Human CD3E, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, hFc Tag with the EC50 of 0.10µg/ml determined by ELISA (QC Test).