# Recombinant Human CD3 epsilon Protein

## Catalog No.: RP00601

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## Sequence Information

**Species**
Human

**Gene ID**
916

**Swiss Prot**
P07766

**Tags**
C-hFc

**Synonyms**
CD3e; CD3E; T3E; FLJ18683; TCRE; CD3-epsilon; IMD18

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE.

**Calculated MW**
36.1 kDa

**Observed MW**
35-55 kDa

**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 stablizer (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 CD3 epsilon Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp23-Asp126) of Human CD3 epsilon (Accession #P07766) fused with a C-hFc 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℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

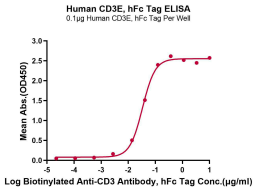
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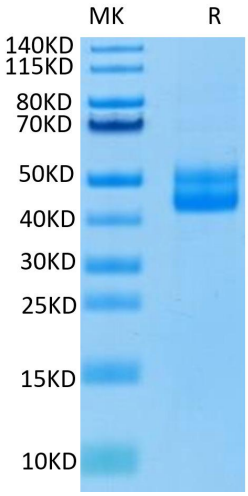


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## Validation Data




Immobilized Human CD3E, hFc Tag at 1 μg/mL (100 μL/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, hFc Tag with the $EC_{50}$ of 33.5ng /mL determined by ELISA (QC Test).




Recombinant Human CD3 epsilon Protein was determined by Tris-Bis PAGE under reducing conditions.