# Non-biotinylated Human CD3E/CD3 epsilon 23-48 Protein, Ultra Low Endotoxin

**Cat. No.** CD3-HM2ED-UL

## Description

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|---|---|
| **Source** | Recombinant Human CD3E/CD3 epsilon 23-48 Protein is expressed from HEK293 with hFc (IgG1) tag and Avi tag at the C-Terminus. |
| | It contains Asp23-Thr48. |
| **Accession** | P07766 |
| **Molecular Weight** | The protein has a predicted MW of 31.3 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 0.01 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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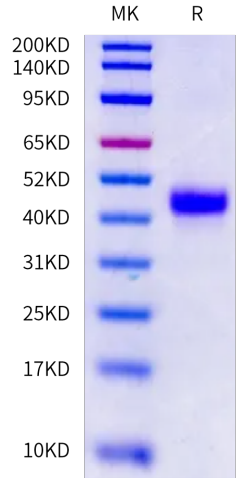
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

CD3E, is a single-pass type I membrane protein.CD3 (cluster of differentiation 3) T cell co-receptor helps to activate both the cytotoxic T cell (CD8 naive T cells) and also T helper cells (CD4 naive T cells). It consists of a protein complex and is composed of four distinct chains. In mammals, the complex contains a CD3γ chain, a CD3δ chain, and two CD3ε chains.

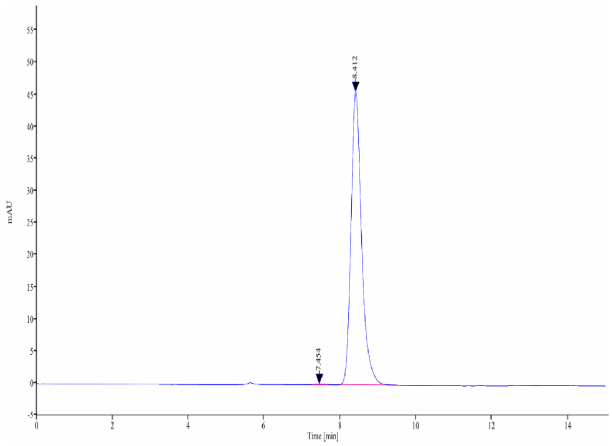
## Assay Data

### Bis-Tris PAGE




Human CD3E 23-48 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of Human CD3E 23-48 is greater than 95% as determined by SEC-HPLC.

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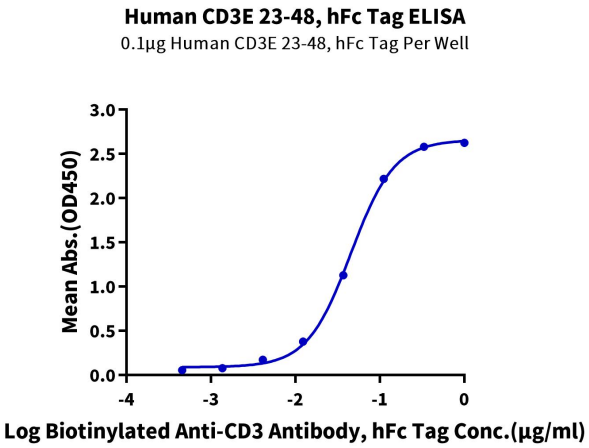
## Assay Data

### ELISA Data




Immobilized Human CD3E 23-48, hFc Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Anti-CD3 Antibody, hFc Tag with the EC50 of 45.4ng/ml determined by ELISA.