

Human CD3E/CD3 epsilon Protein

Cat. No. CD3-HM20E

Description

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|-------------------------|---|
| Source | Recombinant Human CD3E/CD3 epsilon Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Asp23-Asp126 (C119S, C122S). |
| Accession | P07766 |
| Molecular Weight | 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. |
| Endotoxin | Less than 1 EU per µg by the LAL method. |
| Purity | >95% as determined by Bis-Tris PAGE |

Formulation and Storage

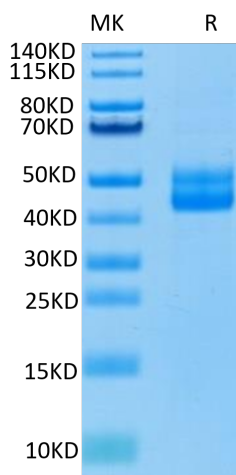
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|-----------------------|---|
| Formulation | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| 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

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

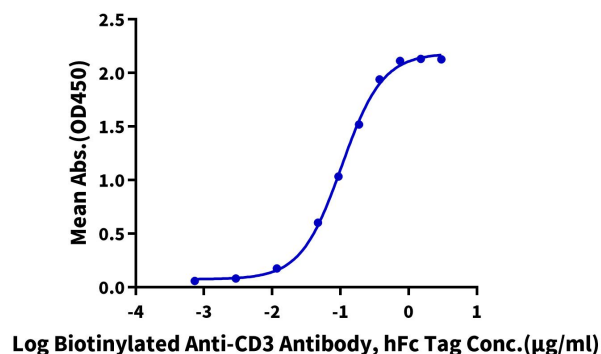
Bis-Tris PAGE



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

ELISA Data

Human CD3E, hFc Tag ELISA
0.2µg Human CD3E, hFc Tag Per Well



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