

Active Recombinant Human CD3E Protein, Fc Tagged, Low endotoxin

Cat. No. CD3E-11182H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD3 epsilon (23-48) Protein, Fc Tag is expressed from human 293 cells (HEK293). It contains AA Asp 23-Thr 48 (Accession # P07766). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Asp 23
Species	Human
Source	HEK293
ProteinLength	23-48 aa
Description	The Asp23-Thr48 region of human CD3E is a core part of its extracellular immunoglobulin-like (Ig-like) domain. Its primary function is to act as a crucial structural scaffold, mediating proper interactions with other CD3 subunits (specifically CD3G and CD3D). It is considered as SP34 binding site.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Immobilized Human CD3 epsilon (23-48) Protein, Fc Tag at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG1 (SP34-2) with a linear range of 0.06-4 ng/mL.
Molecular Mass	The protein has a calculated MW of 29.2 kDa. The protein migrates as 40-43 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

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Endotoxin	Less than 0.01 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD3E CD3e molecule, epsilon (CD3-TCR complex) [Homo sapiens (human)]
Official Symbol	CD3E
Synonyms	CD3E; CD3e molecule, epsilon (CD3-TCR complex); CD3e antigen, epsilon polypeptide (TiT3 complex); T-cell surface glycoprotein CD3 epsilon chain; CD3-epsilon; T-cell surface antigen T3/Leu-4 epsilon chain; T-cell antigen receptor complex, epsilon subunit of T3; T3E; TCRE; FLJ18683;
Gene ID	916
mRNA Refseq	NM_000733
Protein Refseq	NP_000724
MIM	186830

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UniProt ID

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