

Active Recombinant Human CD3E protein, Fc-tagged, Biotinylated

Cat. No. CD3E-276H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human CD3e-Fc fusion is expressed as a 333 amino acid protein consisting of Asp23 - Val127 region of CD3e (UniProt accession #P07766) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
Species	Human
Source	HEK293
ProteinLength	23-127 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier and preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Recognized by recombinant anti-CD3e monoclonal antibodies.
Molecular Mass	Calculated molecular mass (kDa): 37.4; Estimated by SDS-PAGE under reducing condition (kDa): ~45
AA Sequence	DGNEEMGGIT QTPYKVSISG TTVILTCPQY PGSEILWQHN DKNIGGDEDD KNIGSDEDHLSLKEFSELEQ SGYYVCYPRG SKPEDANFYI YLRARVCENC MEMDVSTGTH TCPPCPAPELLGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREEQYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPSREEMTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF

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FLYSKLTVDKSRWQQGNVFS CSVMEALHN HYTKSLSLS PGK

Endotoxin <0.1 EU per 1 µg of purified recombinant protein determined by the LAL method

Purity >95% judged by SDS-PAGE under reducing condition

Storage The product is shipped at 4 centigrade. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below –20 centigrade for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4 centigrade for no more than 2 weeks. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Conjugation Biotin

GENE INFORMATION

Gene Name CD3E CD3e molecule, epsilon (CD3-TCR complex) [Homo sapiens]

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

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MIM	186830
UniProt ID	P07766
Chromosome Location	11q23
Pathway	Adaptive Immune System, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Downstream TCR signaling, organism-specific biosystem; Downstream signaling in naive CD8+ T cells, organism-specific biosystem;
Function	SH3 domain binding; T cell receptor binding; protein heterodimerization activity; protein kinase binding; receptor activity; receptor signaling complex scaffold activity; receptor signaling protein activity; transmembrane signaling receptor activity;

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