

Active Recombinant Human CD3E&CD3D Protein, Fc-tagged

Cat. No. CD3E&CD3D-3617H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human CD3e-CD3d heterodimer is co-expressed as 2 chains: (1) a 326-amino acid CD3e-Fc chain consisting of Gln22 – Val118 region of CD3e and a C-terminal Fc from human IgG1; (2) a 317-amino acid CD3d-Fc fusion consisting of Phe22 - Met92 region of CD3d and a C- terminal Fc from human IgG1. It exists as a dimer of heterodimer under non-reducing condition.
Species	Human
Source	HEK293
ProteinLength	22-118;22-92 a.a.
Form	Liquid
Bio-activity	Recognized by recombinant anti-CD3e monoclonal antibodies: human IgG1, mouse IgG1, mouse IgG2a and rabbit IgG and other OKT3 derived antibodies that binds CD3e in the context of a CD3e:CD3d complex.
Molecular Mass	Calculated molecular mass (kDa): 37; Estimated by SDS-PAGE under reducing condition (kDa): ~45
AA Sequence	chain1 (CD3e-Fc): QDGNEEMGGI TQTPYKVSIS GTTVILTCPQ YPGSEILWQH NDKNIGGDED DKNIGSDEDH LSLKEFSELE QSGYYVCYPR GSKPEDANFY LYLRARVSGD KTHTCPPCPA PELLGGPSVF LFPPKPKDTL MISRTPEVTC VVVDVSHEDP EVKFNWYVDG VEVHNAKTKP REEQYNSTYR VVSVLTVLHQ

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DWLNGKEYKC KVSNKALPAP IEKTISKAKG QPREPQVYTL PPSREEMTKN
 QVSLTCLVKG FYPSDIAVEW ESNGQPENNY KTTTPVLDSG GSFFLYSKLT
 VDKSRWQQGN VFSCSVMHEA LHNHYTQKSL SLSPGK
 chain2 (CD3d-Fc): FKIPIEELED RVFVNCNTSI TWVEGTVGTL LSDITRLDLG
 KRILDPRGIY RCNGTDIYKD KESTVQVHYR MSGDKTHTCP PCPAPELLGG
 PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA
 KTKPREEQYN STYRVVSVLT VLNQDNLNGK EYKCKVSNKA LPAPIEKTIS
 KAKGQPREPQ VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQP
 ENNYKTTTPV LQSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT
 QKSLSLSPGK GGGLNDIFEA QKIEWHE

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

Purity > 95%

Storage 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. Avoid repeated freeze/thaw cycles.

Storage Buffer Sterile PBS pH7.4

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

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complex, epsilon subunit of T3; T3E; TCRE; FLJ18683;

Gene ID 916

mRNA Refseq NM_000733

Protein Refseq NP_000724

UniProt ID P07766

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