Active Recombinant Human CD3E&CD3D, His-Fc&Flag-Fc tagged

Cat. No. CD3E&CD3D-182H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD3E & CD3D heterodimer protein Fc Chimera (Human CD3E & CD3D heterodimer Fc Chimera) Asp 23 - Asp 126 (CD3E, NP_000724.1) and & Phe 22 - Ala 105 (CD3D, AAH39035) was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	23-126;22-105 a.a.
Description	T-cell surface glycoprotein CD3 delta & CD3 epsilon chain, also known as CD3D & CD3E or CD3D&CD3E respectively, are single-pass type I membrane proteins. CD3D, together with CD3- epsilon(CD3E) , CD3-gamma and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. T cell receptor-CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally Mannitol or Trehalose are added as protectants before lyophilization.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Human CD3E & CD3D heterodimer Fc Chimera at 10 μg/mL (100 μL/well) can bind OKT3-mIgG2a (CD3E MAb) with a linear ranger of 3.4-50 ng/mL.

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Molecular Mass	The heterodimer human CD3E & CD3D Fc Chimera is produced by co-expression of CD3E and CD3D, has a calculated MW of 39.2 kDa (CD3E), 37.5 kDa (CD3D) . Subunit CD3E is fused with his-tagged human IgG1 Fc fragment at the C-terminus and subunit CD3D is fused
Endotoxin	Less than 1.0 EU per μg of the Human CD3E & CD3D Heterodimer Fc Chimera by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:In lyophilized state for 1 year (4oC); After reconstitution under sterile conditions for 3 months (-70oC).
Reconstitution	See Certificate of Analysis for reconstitution instructions and specific concentrations.

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

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Protein Refseq	NP_000724
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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