Recombinant Human CD3E

Cat. No. CD3E-26926TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human CD3 epsilon with N terminal proprietary tag; predicted MWt 46.46 kDa inclusive of tag
Species	Human
Source	Wheat Germ
ProteinLength	185 amino acids
Description	The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.
Molecular Weight	46.460kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DGNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQRN DKNIGGDEDDKNIGSDE DHLSLKEFSELEQSGYYVCYPRG SKPEDANFYLYLRARVCENCMEMDVMSVATIVI VDICITG GLLLLVYYWSKNRKAKAKPVTRGAGAGGRQRGQNKERPPP VPNPDYEP IRKGQRDLYSGLNQRRI
Sequence Similarities	Contains 1 Ig-like (immunoglobulin-like) domain.Contains 1 ITAM domain.

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;
Gene ID	916
mRNA Refseq	NM_000733
Protein Refseq	NP_000724
Uniprot ID	P07766
Chromosome Location	11q23

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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;
Function	SH3 domain binding; T cell receptor binding; protein heterodimerization activity; protein kinase binding; receptor activity;

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