Recombinant Human CD3E Protein (198 AA), C-Fc-tagged

Cat. No. CD3E-30H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD3E Protein (198 aa) with a C-Fc tag was expressed in HEK293.
Species	Monkey
Source	HEK293
ProteinLength	198 aa
Description	Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways. In addition of this role of signal transduction in T-cell activation, CD3E plays an essential role in correct T-cell development. Initiates the TCR-CD3 complex assembly by forming the two heterodimers CD3D/CD3E and CD3G/CD3E. Participates also in internalization and cell surface down-regulation of TCR-CD3 complexes via endocytosis sequences present in CD3E cytosolic region.
Form	Lyophilized, Sterile-filtered colorless solution
Molecular Mass	22149 kDa

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AA Sequence	MQSGTRWRVLGLCLLSIGVWGQDGNEEMGSITQTPYQVSISGTTVILTCSQHLGSE AQWQHNGKNKEDSGDRLFLPEFSEMEQSGYYVCYPRGSNPEDASHHLYLKARVC ENCMEMDVMAVATIVIVDICITLGLLLLVYYWSKNRKAKAKPVTRGAGAGGRQRGQN KERPPPVPNPDYEPIRKGQQDLYSGLNQRRI
Purity	>98%
Stability	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
Storage	At -20 centigrade
Concentration	1 mg/mL
Storage Buffer	PBS, pH 7.4-7.5
Reconstitution	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

GENE INFORMATION

Gene Name	CD3E CD3e molecule, epsilon (CD3-TCR complex) [Macaca mulatta]
Official Symbol	CD3E
Synonyms	CD3E; CD3e molecule, epsilon (CD3-TCR complex); T-cell surface glycoprotein CD3 epsilon chain

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Gene ID	699467
mRNA Refseq	XM_015115816
Protein Refseq	XP_014971302
UniProt ID	G7NCB9

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