

## Recombinant Human CD3E Protein, His and Fc-tagged

Cat. No. CD3E-142H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human CD3E protein with His and Fc tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	207
<b>Description</b>	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.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	39.2 kDa
<b>AA Sequence</b>	MQSGTHWRVLGLCLLSVGVWGQDGNEEMGGITQTPYKVSISGTTVILTCPQYPGSE ILWQHNDKNIGGDEDDKNIGSDEDHLSLKEFSELEQSGYYVCYPRGSKPEDANFYL YLRARVCENCMEMDVMSVATIVIVDICITGLLLLLVYYWSKNRKAKAKPVTRGAGAG

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GRQRGQNKERPPPVPNPDYEPIRKGQRDLYSGLNQRRRI

**Purity**

> 98%

**Applications**

WB; ELISA; FACS; FC

**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). Sterile-filtered colorless solution.

**Reconstitution**

Reconstitute in sterile distilled H<sub>2</sub>O 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) [ Homo sapiens (human) ]

**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;

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Gene ID	916
mRNA Refseq	NM_000733
Protein Refseq	NP_000724
MIM	186830
UniProt ID	P07766

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