

Active Recombinant Human CD3E Protein, His&hFc-tagged

Cat. No. CD3E-8111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human CD3E Protein(23-126 aa), fused with N-terminal His Tag and C-terminal Fc Region of Human IgG1, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	23-126 aa
Form	PBS, pH7.4, containing 5% Trehalose.
Bio-activity	CD3 epsilon (T-Cell Surface Glycoprotein CD3 Epsilon) is a 104-kD glycoprotein of the immunoglobulin (Ig) superfamily expressed in lymph node (RPKM 92.6), appendix (RPKM 45.9) and 9 other tissues. CD3 epsilon plays essential role in adaptive immune response. Mutations in CD3 epsilon lead to SCID (severe combined immunodeficiency). CD3E and CD247 can form two heterodimers flanking either side of the TCR. Thus a functional ELISA assay was conducted to detect the interaction of recombinant human CD3e and recombinant human CD247. Briefly, CD3e was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to CD247-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-CD3e pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution

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to the wells and read at 450/630 nm immediately. The binding activity of recombinant human CD3e and recombinant human CD247 was shown, the EC50 for this effect is 0.68 ug/mL.

Molecular Mass	42.8kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	>95%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

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
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UniProt ID	P07766
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