

# Active Recombinant Human CD3E & CD3D protein, His-tagged

**Cat. No.** CD3E & CD3D-376H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human CD3 epsilon & CD3 delta Heterodimer Protein, Asp 23 - Asp 126 (CD3E, P07766) and & Phe 22 - Ala 105 (CD3D, P04234), was produced in human 293 cells (HEK293).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Asp 23 - Asp 126 (CD3E) & Phe 22 - Ala 105 (CD3D)
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 . Normally trehalose is added as protectant before lyophilization.
<b>Bio-activity</b>	Immobilized Human CD3E&CD3D Heterodimer Protein, His Tag&Tag Free at 1 µg/mL (100 µL/well) can bind Monoclonal Anti-Human CD3 Antibody, Mouse IgG2a (Clone: OKT3) with a linear range of 0.2-6 ng/mL.
<b>Molecular Mass</b>	The protein has a calculated MW of 16.6 kDa (CD3E) and 13.4 kDa (CD3D). Subunit CD3E is fused with a polyhistidine tag at the C-terminus and subunit CD3D contains no tag. The reducing (R) heterodimer protein migrates as 25-30 kDa (CD3E) and 20 kDa and 22 kDa (CD3D) due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>90% as determined by SDS-PAGE.

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**Storage**

For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20 centigrade to -70 centigrade for 12 months in lyophilized state;
- 70 centigrade for 3 months under sterile conditions after reconstitution.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## 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](#)

**Protein Refseq** [NP\\_000724](#)

**UniProt ID** [P07766](#)

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