

Active Recombinant Human CD3D & CD3E Protein, His-Fc & Flag-Fc-tagged

Cat. No. CD3D & CD3E-1247H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant extracellular domain (Met 1-Ala 105) of human CD3D (P04234) was fused with the C-terminal flag-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; Recombinant extracellular domain (Met 1-Asp 126) of human CD3E (P07766)
Species	Human
Source	HEK293
ProteinLength	1-105;1-126 a.a.
Predicted N Terminal	Phe 22 & Asp 23
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized human CD3D & CD3E Heterodimer Protein at 10 µg/ml (100 µl/well) can bind OKT3-mIgG2a. The EC50 of OKT3-mIgG2a is 0.07-0.17 µg/ml.
Molecular Mass	The recombinant heterodimer of human CD3D/CD3E comprises 670 (333+354) amino acids and has a calculated molecular mass of 77.5 (37.5+40) kDa. As a result of glycosylation, the apparent molecular mass of human CD3D/CD3E heterodimer is approximately 45-50 kDa in SDS-PAGE under reducing conditions.

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Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Purity	>90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	CD3D CD3d molecule, delta (CD3-TCR complex) [Homo sapiens]
Official Symbol	CD3D
Synonyms	CD3D; CD3d molecule, delta (CD3-TCR complex); CD3d antigen, delta polypeptide (TiT3 complex) , T3D; T-cell surface glycoprotein CD3 delta chain; CD3 delta; OKT3, delta chain; CD3 antigen, delta subunit; T-cell receptor T3 delta chain; CD3d antigen, delta
Gene ID	915
mRNA Refseq	NM_000732
Protein Refseq	NP_000723
MIM	186790

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UniProt ID	P04234
Chromosome Location	11q23
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; Cost
Function	protein heterodimerization activity; receptor activity; transcription coactivator activity; transmembrane signaling receptor activity;

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