

## CD3D & CD3E Heterodimer Protein, Human, Recombinant (Flag & His)

### General Information

Synonyms:	CD3-DELTA;CD3d molecule, delta (CD3-TCR complex);CD3d molecule, $\delta$ (CD3-TCR complex); CD3- $\delta$ ;IMD19;T3D
Protein Construction:	A DNA sequence encoding the extracellular domain (Met1-Ala105) of human CD3D (P04234-1) was fused with a flag tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the extracellular domain (Met1-Asp126) of human CD3E (P07766-1) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3D/CD3E heterodimer was purified. Predicted N terminal: Phe 22 & Asp 23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P04234-1&P07766-1
Molecular Weight:	31.05 kDa (predicted); 20, 22 and 26 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized human CD3D & CD3E Heterodimer Protein at 2 $\mu\text{g/ml}$ (100 $\mu\text{l/well}$ ) can bind OKT3-mIgG2a . The EC50 of OKT3-mIgG2a is 7-28 ng/ml.
Purity:	$\geq 95\%$ as determined by SDS-PAGE. $\geq 95\%$ as determined by SEC-HPLC.
Endotoxin:	$< 1.0$ EU/ $\mu\text{g}$ of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu\text{m}$ filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at $-20^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at $-80^{\circ}\text{C}$ . For reconstituted protein solutions, the solution can be stored at $-20^{\circ}\text{C}$ to $-80^{\circ}\text{C}$ for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

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