

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

General Information

Synonyms:	CD3d molecule, δ (CD3-TCR complex);CD3- δ ;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 the C-terminal his-tagged Fc region of human IgG1 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 the C-terminal flag-tagged Fc region of human IgG1 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:	77.5 kDa (predicted); 44-54 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	Measured by its ability to bind OKT3-mIgG2a in a functional ELISA.
Purity:	≥ 90 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ 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°C to -80°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°C . For reconstituted protein solutions, the solution can be stored at -20°C to -80°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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