

## CD3E & CD3G Heterodimer Protein, Human, Recombinant (Fc-Flag & Fc-His)

### General Information

Synonyms:	CD3e molecule, epsilon (CD3-TCR complex);TCRE;CD3e molecule, ε (CD3-TCR complex);T3E; IMD18;CD3E & CD3G Heterodimer
Protein Construction:	A DNA sequence encoding the (Met1-Asp126) of human CD3E (NP_000724.1) was fused with a C-terminal Fc region of human IgG1 tag followed by a FLAG tag, constructed the plasmid 1; A DNA sequence encoding the (Met1-Ser116) of human CD3G (NP_000064.1) was fused with a C-terminal Fc region of human IgG1 tag followed by a polyhistidine tag, constructed the plasmid 2. The two plasmids were co-expressed and the Human CD3E/CD3G heterodimer was purified. Predicted N terminal: Asp 23 & Gln 23
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P07766&P09693
Molecular Weight:	78.36 kDa (predicted); 47.10 and 42.93 kDa (reducing condition, due to glycosylation)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm 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:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
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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