

## Recombinant Human CD3E&CD3D protein, Flag&His-tagged, Biotinylated

**Cat. No.** CD3E&CD3D-219HB    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Recombinant extracellular domain (Met1-Ala105) of human CD3D (P04234) was fused with a flag tag at the C-terminus, constructed the plasmid 1; Recombinant extracellular domain (Met1-Asp126) of human CD3E (P07766) 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. The purified protein was biotinylated in vitro. |
| <b>Species</b>              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>               | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>        | 1-105 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Predicted N Terminal</b> | Phe 22 & Asp 23                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH 7.4, 5% trehalose, 5% mannitol and 0.01% Tween80.                                                                                                                                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b>       | The recombinant human CD3D&CD3E consists of 271 (126+145) amino acids and predicts a molecular mass of 31.05 (14.4+16.65)KDa.                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>            | < 1.0 EU per µg protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>               | > 95 % as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                         |

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|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.           |
| <b>Reconstitution</b>   | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.                                                                            |
| <b>Shipping</b>         | In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |
| <b>Conjugation</b>      | Biotin                                                                                                                                                                                                                                                    |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>  | CD3E&CD3D                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>         | CD3E; CD3D; CD3-DELTA; IMD19; T3D                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>   | P04234 & P07766                                                                                                                                                                                                                                           |

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