

## Active Recombinant Human CD3D Protein (Phe22-Ala105), C-Fc-tagged

**Cat. No.** CD3D-28H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human CD3 delta/CD3d protein (Phe22-Ala105) with a Human IgG1 (Pro100-Lys330) Fc tag at C-terminus was expressed in Human embryonic kidney cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Phe22-Ala105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | The protein encoded by this gene is part of the T-cell receptor/CD3 complex (TCR/CD 3 complex) and is involved in T-cell development and signal transduction. The encoded membrane protein represents the delta subunit of the CD3 complex, and along with four other CD3 subunits, binds either TCR alpha/beta or TCR gamma/delta to form the TCR/CD3 complex on the surface of T-cells. Defects in this gene are a cause of severe combined immunodeficiency autosomal recessive T-cell-negative/B-cell-positive/NK-cell-positive (SCIDBNK). Two transcript variants encoding different isoforms have been found for this gene. Other variants may also exist, but the full-length nature of their transcripts has yet to be defined. |
| <b>Form</b>             | Disulfide linked homodimer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. When Recombinant Human CD3 delta/CD3d Fc Chimera is immobilized at 1.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                                                                                                                                                                    |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | <p>µg/mL, 100 µL/well, the concentration of Recombinant Human CD3E Fc Chimera Biotinylated Protein that produces 50% of the optimal binding response is approximately 1.0-6.0 µg/mL.</p>                                                                                                                           |
| <b>Molecular Mass</b> | <p>Predicted Molecular Mass: 36 kDa<br/>SDS-PAGE: 45-55 kDa, under reducing conditions</p>                                                                                                                                                                                                                         |
| <b>Endotoxin</b>      | <p>&lt;0.10 EU/µg of the protein by the LAL method.</p>                                                                                                                                                                                                                                                            |
| <b>Purity</b>         | <p>&gt;95% by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.</p>                                                                                                                                                                                              |
| <b>Storage</b>        | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br/>12 months from date of receipt, -20 to -70 centigrade as supplied.<br/>1 month, 2 to 8 centigrade under sterile conditions after reconstitution.<br/>3 months, -20 to -70 centigrade under sterile conditions after reconstitution.</p> |
| <b>Storage Buffer</b> | <p>Lyophilized from a 0.2 µm filtered solution in PBS.</p>                                                                                                                                                                                                                                                         |
| <b>Reconstitution</b> | <p>Reconstitute at 250 µg/mL in PBS.</p>                                                                                                                                                                                                                                                                           |
| <b>Shipping</b>       | <p>The product is shipped at ambient temperature.</p>                                                                                                                                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <p>CD3D CD3d molecule, delta (CD3-TCR complex) [ Homo sapiens (human) ]</p>                                                                                              |
| <b>Official Symbol</b> | <p>CD3D</p>                                                                                                                                                              |
| <b>Synonyms</b>        | <p>CD3D; CD3d molecule, delta (CD3-TCR complex); CD3d antigen, delta polypeptide (TiT3 complex) , T3D; T-cell surface glycoprotein CD3 delta chain; CD3 delta; OKT3,</p> |

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delta chain; CD3 antigen, delta subunit; T-cell receptor T3 delta chain; CD3d antigen, delta polypeptide (TiT3 complex); T3D; CD3-DELTA

**Gene ID** 915

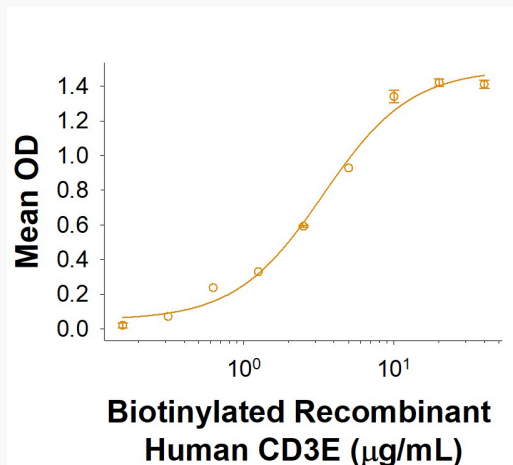
**mRNA Refseq** NM\_000732

**Protein Refseq** NP\_000723

**MIM** 186790

**UniProt ID** P04234

#### Bioactivity

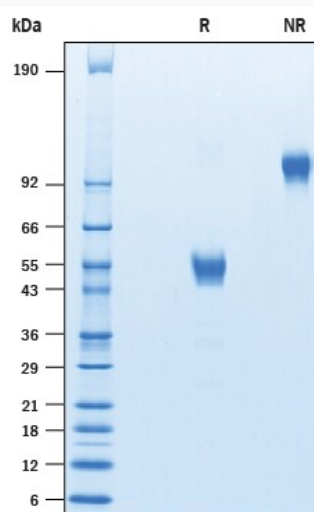


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**SDS-PAGE analysis  
of Prolactin-  
Inducible Protein  
native protein, 12%  
gel stained with  
Coomassie Brilliant  
Blue G250.**



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