

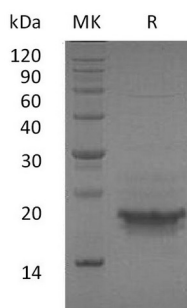
**Product Name: Recombinant Human CD3E (C-6His)**  
**Catalog #: PHH0344**



## Summary

|                                 |                                                                                                                                                                                                                                                                                        |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>                     | CD3E/CD3 epsilon/CD3ε/T-cell surface glycoprotein CD3 epsilon chain                                                                                                                                                                                                                    |
| <b>Purity</b>                   | Greater than 95% as determined by reducing SDS-PAGE                                                                                                                                                                                                                                    |
| <b>Endotoxin level</b>          | <1 EU/μg as determined by LAL test.                                                                                                                                                                                                                                                    |
| <b>Construction</b>             | Recombinant Human T-Cell Surface Glycoprotein CD3 Epsilon Chain is produced by our Mammalian expression system and the target gene encoding Asp23-Asp126 is expressed with a 6His tag at the C-terminus.                                                                               |
| <b>Accession #</b>              | P07766                                                                                                                                                                                                                                                                                 |
| <b>Host</b>                     | Human Cells                                                                                                                                                                                                                                                                            |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                  |
| <b>Predicted Molecular Mass</b> | 12.79 KDa                                                                                                                                                                                                                                                                              |
| <b>Formulation</b>              | Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                            |
| <b>Shipping</b>                 | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.                                                                                                                                                                     |
| <b>Stability&amp;Storage</b>    | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.                                                                                                                   |
| <b>Reconstitution</b>           | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |

## SDS-PAGE image



## Background

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**Alternative Names**

T-Cell Surface Glycoprotein CD3 Epsilon Chain; T-Cell Surface Antigen T3/Leu-4 Epsilon Chain; CD3e; CD3E; T3E

**Background**

T-Cell Surface Glycoprotein CD3 ε Chain (CD3ε) is a single-pass type I membrane protein. CD3ε contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3ε is a polypeptide encoded by the CD3E gene on chromosome 11 in humans. The T cell receptor-CD3 complex (TCR/CD3 complex) is involved in T-cell development and several intracellular signal-transduction pathways. This complex is critical for T-cell development and function, and represents one of the most complex transmembrane receptors. The T cell receptor-CD3 complex is unique in having ten cytoplasmic immunoreceptor tyrosine-based activation motifs (ITAMs). TCR/CD3 complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways.

**Note**

For Research Use Only , Not for Diagnostic Use.