

**CD3E&CD3D**  
**Catalog # PVGS1847****Specification**

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**CD3E&CD3D - Product Information**

Primary Accession

[P07766 \(CD3E\)&P04234 \(CD3D\)](#)**Species**

Human

**Sequence**

Asp23-Asp126 (CD3E)&amp;Phe22-Ala105 (CD3D)

**Purity**> 95% as determined by Bis-Tris PAGE  
> 95% as determined by HPLC**Endotoxin Level**

Less than 1EU per µg by the LAL method.

**Biological Activity**

Measured by its binding ability in a functional ELISA. Immobilized CD3E&CD3D [Biotin], His, Human at 0.5 µg/ml (100 µl/well) on the streptavidin precoated plate (5 µg/ml) can bind OKT3, mFc Tag. Test result was comparable to standard batch.

**Expression System**

HEK293

**Theoretical Molecular Weight**

17.9 kDa (CD3E) and 16.7 kDa (CD3D)

Formulation

**Lyophilized from a 0.22 µm filtered solution in PBS (pH 7.4).****Reconstitution**

Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.

**Storage & Stability**

Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

**CD3E&CD3D - Additional Information****Target Background**

T-cell surface glycoprotein CD3 epsilon&CD3 delta chain, also known as CD3E&CD3D, are single-pass type I membrane proteins. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain.

## **CD3E&CD3D - Protein Information**

## **CD3E&CD3D - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **CD3E&CD3D - Images**