

# Recombinant human CD3 epsilon protein

Catalog Number: ATGP1853

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

23-126aa

### UniProt No.

P07766

### NCBI Accession No.

NP\_000724.1

### Alternative Names

T-cell surface glycoprotein CD3 epsilon chain, T3E, TCRE

## PRODUCT SPECIFICATION

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### Molecular Weight

14.1 kDa (127aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

CD3E is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma delta polypeptides are located in the same cluster on chromosome 11. The epsilon

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polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women. Recombinant human CD3E protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>DGNEEMG GITQTPYKVS ISGTTVILTC PQYPGSEILW QHNDKNIGGD  
EDDKNIGSDE DHLSLKEFSE LEQSGYYVCY PRGSKPEDAN FYLYLRARVC ENCMEMD

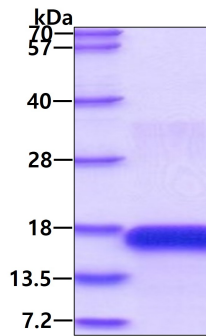
## General References

Lu,X., et al. (2011) Hematology 16 (3), 185-189

Li,Y., et al. (2011) Hematology 16 (3), 143-150

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.