

# Recombinant human CD3 zeta/CD247 protein

Catalog Number: ATGP1872

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

52-164aa

**UniProt No.**

P20963

**NCBI Accession No.**

NP\_932170.1

**Alternative Names**

TCRZ, T-cell surface glycoprotein CD3 zeta chain isoform 1, T3Z, IMD25, CD3-ZETA, CD3Z, CD3Q, CD3H, CD247

## PRODUCT SPECIFICATION

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**Molecular Weight**

15.4 kDa (136aa) confirmed by MALDI-TOF

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

**Purity**

&gt; 85% by SDS-PAGE

**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**

T-cell surface glycoprotein CD3 zeta chain, also known as CD247, belongs to the CD3Z/FCER1G family. CD247 is T-cell receptor zeta, which together with T-cell receptor alpha/beta and gamma/delta heterodimers, and with CD3-gamma, -delta and -epsilon, forms the T-cell receptor-CD3 complex. The zeta chain plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. Low expression of the antigen results in impaired immune response. Recombinant human CD247 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGS>RVKFSRS ADAPAYQQGQ NQLYNELNLG RREEYDVLDK RRRGRDPEMGG  
KPQRRKNPQE GLYNELQKDK MAEAYSEIGM KGERRRGKGH DGLYQGLSTA TKD TYDALHM QALPPR

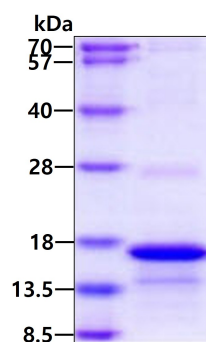
## General References

Mayya V., et al. (2009) *Sci. Signal.* 2:RA46-RA46

Rieux-Laucat F., et al. (2006) *N. Engl. J. Med.* 354:1913-1921

## DATA

### SDS-PAGE



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