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## Recombinant human CD3 zeta/CD247 protein

Catalog Number: ATGP3754

#### PRODUCT INFORMATION

## **Expression system**

Baculovirus

#### **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

### **Molecular Weight**

14.1 kDa (122aa)

#### Concentration

0.2mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 6.8) containing 50% glycerol, 1mM DTT, 1mM EDTA, 0.1M NaCl

#### **Purity**

> 90% 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**

#### **Description**

CD247, also known as T-cell surface glycoprotein CD3 zeta chain isoform 1, belongs to CD3Z / FCER1G family. The T cell receptor Zeta together, with alpha / beta and gamma / delta heterodimers. This Protein plays an important role in binding antigen recognition to multiple intracellular signaling pathways and also plays a role in assembly and expression of the TCR complex. Defects in CD247 defects can cause immune deficiencies.



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Immune deficiency, characterized by T cells, impaired immune responses to allogeneic antigens, tetanus toxoid and mitogen. Recombinant human CD247, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

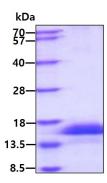
<ADP>RVKFSRS ADAPAYQQGQ NQLYNELNLG RREEYDVLDK RRGRDPEMGG KPQRRKNPQE GLYNELQKDK MAEAYSEIGM KGERRRGKGH DGLYQGLSTA TKDTYDALHM QALPPR<HHHH HH>

## **General References**

Tomita K., et al. (2001) J. Biol. Chem. 276:25378-25385. Li R., et al. (2012) Lupus. 21:75-83.

## **DATA**

### **SDS-PAGE**



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

