

Recombinant human CD3 zeta/CD247 protein

Catalog Number: ATGP1872

PRODUCT INFORMATION

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

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

> 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

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 RRGDPPEMGG
KPQRRKNPQE GLYNELQKDK MAEAYSEIGM KGERRRGKGH DGLYQGLSTA TKDTYDALHM QALPPR

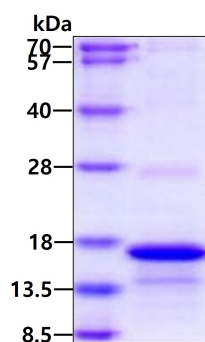
General References

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.