

# Recombinant human CD3 gamma/CD3G protein

Catalog Number: ATGP3551

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

23-116aa

### UniProt No.

P09693

### NCBI Accession No.

NP\_000064

### Alternative Names

T-cell surface glycoprotein CD3 gamma chain, CD3G, CD3-GAMMA, IMD17, T3G, CD3 gamma subunit of T-cell receptor complex, CD3g antigen gamma polypeptide, TiT3 complex, T-cell receptor T3 gamma chain

## PRODUCT SPECIFICATION

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### Molecular Weight

11.8 kDa (103aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 85% 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

CD3G, also known as T-cell surface glycoprotein CD3 gamma chain, is associated on the T cell surface with a complex of protein called CD3. The protein is the CD3-gamma polypeptide, which together with CD3-epsilon, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-

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CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal transduction pathways. Defects in this gene are associated with T cell immunodeficiency. Recombinant human CD3G protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

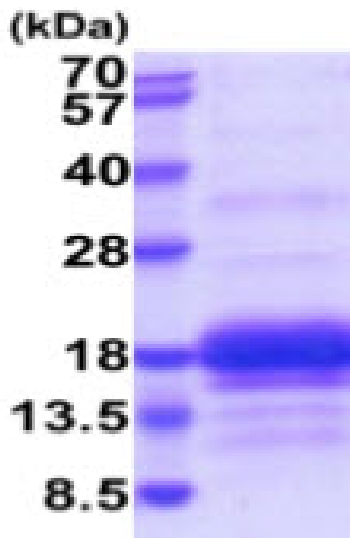
ADPQSIKGNH LVKVYDYQED GSVLLTCDAE AKNITWFKDG KMIGFLTEDK KKWNLGSNAK DPRGMYQCKG SQNKSKPLQV  
YYRMCQNCIE LNAATISHHH HHH

## General References

Munoz-Ruiz M., et al. (2013) BMC Immunol. 14: 3.  
Gokturk B., et al. (2014) Scand J Immunol. 80:354-361.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)