

# Recombinant human TIGIT protein

Catalog Number: ATGP3704

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

22-141aa

### UniProt No.

Q495A1

### NCBI Accession No.

NP\_776160

### Alternative Names

T-cell immunoreceptor with Ig and ITIM domains, TIGIT, VSIG9, VSTM3, WUCAM

## PRODUCT SPECIFICATION

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### Molecular Weight

40kDa (359aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

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

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

hIgG-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

TIGIT, also known as T-cell immunoreceptor with Ig and ITIM domains, is a surface protein containing and immunoglobulin variable domain. This protein is expressed at low levels on peripheral memory and regulatory CD4+ T-cells and NK cells. Also, it binds with high affinity to the poliovirus receptor which causes increased secretion of IL10 and decreased secretion of IL12B and suppresses T-cell activation by promoting the generation

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of mature immunoregulatory dendritic cells. Recombinant human TIGIT, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

MMTGTIETTTG NISAEKGGSI ILQCHLSSTT AQVTQVNWEQ QDQLLAICNA DLGWHISPSF KDRVAPGPGL GLTLQSLTVN  
DTGEYFCIYH TYPDGTYTGR IFLEVLESSV AEHGARFQIP <LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS  
RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK  
TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GPENNYKTT PPVLDSGGSF FLYSKLTVDK  
SRWQQGNVFS CSVMHEALHN HYTQKSLSL S PGKHHHHHH>

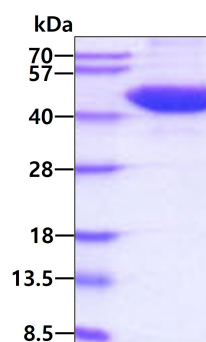
## General References

Yu X., et al, (2009) Nat. Immunol. 10:48-57.

Godefroy E., et al, (2015) Haematologica 100:1415-1425.

## DATA

### SDS-PAGE



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