Recombinant human TIGIT protein

Catalog Number: ATGP3704

PRODUCT INFORMATION

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

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

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 hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

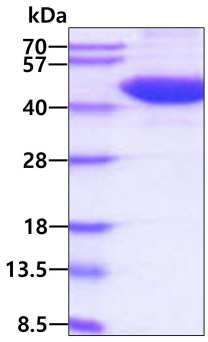
MMTGTIETTG NISAEKGGSI ILQCHLSSTT AQVTQVNWEQ QDQLLAICNA DLGWHISPSF KDRVAPGPGL GLTLQSLTVN DTGEYFCIYH TYPDGTYTGR IFLEVLESSV AEHGARFQIP <LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSLS 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.