

# Recombinant human GITR/TNFRSF18 protein

Catalog Number: ATGP3319

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

26-162aa

### UniProt No.

Q9Y5U5

### NCBI Accession No.

NP\_004186.1

### Alternative Names

Tumor necrosis factor receptor superfamily member 18, Activation-inducible TNFR family receptor, Glucocorticoid-induced TNFR-related protein, CD357, AITR, GITR

## PRODUCT SPECIFICATION

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### Molecular Weight

41.6 kDa (376aa)

### Concentration

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

### Formulation

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

### Purity

> 95% 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

TNFRSF18, also known as tumor necrosis factor receptor superfamily member 18 isoform 1, is receptor for TNFSF18. It seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. TNFRSF18 mediated NF-kappa-B activation via the

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TRAF2/NIK pathway. Also, this protein reciprocally stimulated and activate intracellular signals regulating immune functions. In particular, GITR-driven T-cell co-stimulation was found to be the main mechanism by which the GITRL-GITR system contributes to tumor rejection and the development of autoimmune/inflammatory diseases. Recombinant human TNFRSF18, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

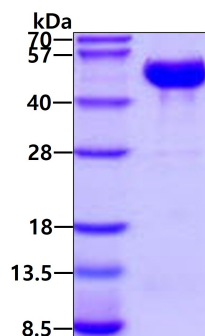
QRPTGGPGCG PGRLLLTGT DARCCRVHTT RCRDYPGEE CCSEWDCMCV QPEFHCGDPC CTTCRHHPCP  
PGQGVQSQK FSFGFQCIDC ASGTFSGGHE GHCKPWTDC QFGFLTVFPG NKTHNAVCVP GSPPAEP<LEP  
KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN  
STYRVVSVLT VLNQDNLNGK EYKCKVSNKA LPAPIEKTI KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI  
AVEWESNGQP ENNYKTTTPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH>

## General References

Lacal PM., et al. (2013) J. Pharmacol. Exp. Ther. 347:164-172.  
Xufre C., et al. (2013) Int. Immunol. 25:563-574.  
Shimizu J., et al. (2002) Nat. Immunol. 3:135-142.

## DATA

### SDS-PAGE



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