Recombinant human GITR/TNFRSF18 protein

Catalog Number: ATGP3319

PRODUCT INFORMATION

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

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

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

Amino acid Sequence

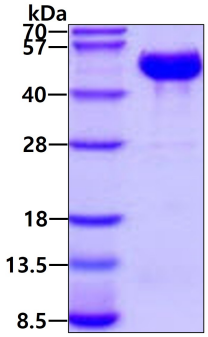
QRPTGGPGCG PGRLLLGTGT DARCCRVHTT RCCRDYPGEE CCSEWDCMCV QPEFHCGDPC CTTCRHHPCP PGQGVQSQGK FSFGFQCIDC ASGTFSGGHE GHCKPWTDCT QFGFLTVFPG NKTHNAVCVP GSPPAEP<LEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPV 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.