

# Recombinant human OX40/TNFRSF4 protein

Catalog Number: ATGP4045

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

29-214aa

### UniProt No.

P43489

### NCBI Accession No.

NP\_003318.1

### Alternative Names

Tumor necrosis factor receptor superfamily member 4, TNFRSF4, ACT35, CD134, IMD16, OX40, TXGP1L, ACT35 antigen, OX40L receptor, TAX transcriptionally-activated glycoprotein 1 receptor

## PRODUCT SPECIFICATION

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### Molecular Weight

46.9KDa (425aa)

### Concentration

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

### 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)

### Biological Activity

Measured by its binding ability in a functional ELISA with mouse OX40 Ligand/TNFSF4 (CAT# ATGP4022). The ED50 range  $\leq$  0.15 ug/ml.

### Tag

hIgG-His-Tag

### Application

SDS-PAGE, Bioactivity

### 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.

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## BACKGROUND

### Description

TNFRSF4, also known as tumor necrosis factor receptor superfamily member 4, is a T cell co-stimulatory molecule in the TNF receptor superfamily. This protein coordinates with other co-stimulatory substances (CD28, CD40, CD30, CD27 and 4-1BB) to control the activation of the immune response. It plays an important role in antigen-specific T cell expansion and survival. It is up-regulated on CD4+ and CD8+ T cells upon engagement of the TCR by antigen presenting cells along with co-stimulation by CD40-CD40 Ligand and CD28-B7. This protein also regulates cytokine production from T cells, antigen presenting cells, natural killer cells and natural killer cells and regulate cytokine receptor signaling. Recombinant human TNFRSF4, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

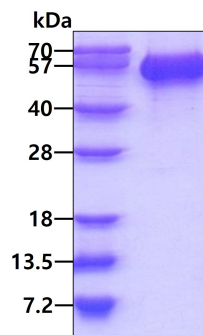
```
LHCVGDTYPS NDRCCHECRP GNGMVSRCR SQNTVCRPCG PGFYNDVVSS KPCKPCTWCN LRSGSERKQL  
CTATQDTVCR CRAGTQPLDS YKPGVDCAPC PPGHFSPGDN QACKPWTNCT LAGKHTLQPA SNSSDAICED RDPPATQPQE  
TQGPPARPIT VQPTEAWPRT SQGPSTRPVE VPGGRA<LEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE  
VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK  
AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTTPVL DSDGSFFLYS KLTVDKSRWQ  
QGNVFSCSVM HEALHNHYTQ KSLSLSPGKH HHHHH>
```

### General References

Hori, T., et al. (2006) *Int. J. Hematol.* 83:17-22.  
Moran, A.E., et al. (2013) *Curr. Opin. Immunol.* 25:230-237.

## DATA

### SDS-PAGE



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

### Biological Activity

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Mouse OX40 Ligand/TNFSF4 (CAT# ATGP4022) is coated at 1 ug/ml (100 ul/well) can bind Human TNFRSF4. The ED50 range  $\leq$  0.15 ug/ml.

