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## Recombinant human OX40/TNFRSF4 protein

Catalog Number: ATGP4045

### **PRODUCT INFORMATION**

### **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**

## **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

hlgG-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.



## Recombinant human OX40/TNFRSF4 protein

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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**

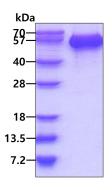
LHCVGDTYPS NDRCCHECRP GNGMVSRCSR SQNTVCRPCG PGFYNDVVSS KPCKPCTWCN LRSGSERKQL CTATQDTVCR CRAGTQPLDS YKPGVDCAPC PPGHFSPGDN QACKPWTNCT LAGKHTLQPA SNSSDAICED RDPPATQPQE TQGPPARPIT VQPTEAWPRT SQGPSTRPVE VPGGRA<LEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL 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**



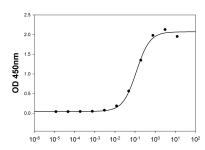
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

## **Biological Activity**

# **Recombinant human OX40/TNFRSF4 protein**

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Human TNFRSF4 (ug/ml)



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.

