

# Recombinant human OX40 Ligand/TNFSF4 protein

Catalog Number: ATGP4136

## PRODUCT INFORMATION

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### Expression system

HEK293

### Domain

51-183aa

### UniProt No.

P23510

### NCBI Accession No.

NP\_003317.1

### Alternative Names

Tumor necrosis factor superfamily member 4 isoform 1, Glycoprotein Gp34, TAX transcriptionally-activated glycoprotein 1, Ath1, Ath-1, CD134L, OX40 ligand, OX40L, 34kD taxtranscriptionally activated glycoprotein 1, gp34, TXGP1, Txgp1l, TNLG2B, CD252, TNFSF4

## PRODUCT SPECIFICATION

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### Molecular Weight

16.2kDa (139aa)

### Concentration

1mg/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)

### Biological Activity

Measured by its binding ability in a functional ELISA with Human OX40/TNFRSF4 (CAT# ATGP4045).

### Tag

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 Ligand/TNFSF4 protein

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## BACKGROUND

### Description

OX40 Ligand/TNFSF4, also known as Inositol monophosphatase 3, is a member of the tumor necrosis factor (TNF) receptor family. It is expressed on many antigen-presenting cells such as DC2s, macrophages, and activated B lymphocytes. The receptor for OX40L is OX40 that is expressed predominantly on activated CD4+ T cells. Expression of OX40 is transient following engagement of T cell receptors. The ligation of OX40-OX40L is a source of survival signal for T cells and enables the development of memory T cells. Also, It stimulates proliferation and differentiation of activated B cells, and increases immunoglobulin secretion. OX40-OX40 Ligand signaling is involved in graft-versus-host disease and autoimmune disease . Mutations in OX40 and OX40 Ligand are associated with cardiovascular disease. Recombinant human OX40 Ligand/TNFSF4, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

QVSHRYPRIQ SIKVQFTEYK KEKGFILTSQ KEDEIMKVQN NSVIINCDGF YLISLKGYS QEVNISLHYQ KDEEPLFQLK  
KVRVNSLMV ASLTYKDKVY LNVTTDNTSL DDFHVNGGEL ILIHQNPGEF CVL<HHHHHH>

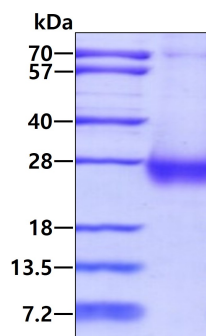
### General References

Damayanti T., et al, (2010) Am. J. Respir. Crit. Care Med. 181:688-698.

Ishii N., et al, (2010) Adv. Immunol. 105:63-98.

## DATA

### SDS-PAGE



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

### Biological Activity

# Recombinant human OX40 Ligand/TNFSF4 protein

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Human OX40 Ligand/TNFSF4 is coated at 1 ug/ml (100 ul/well) can bind Human OX40/TNFRSF4 (CAT# ATGP4045) in a Functional ELISA assay.

