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## Recombinant human OX40 Ligand/TNFSF4 protein

Catalog Number: ATGP4136

## **PRODUCT INFORMATION**

## **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**

## **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**

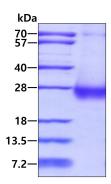
QVSHRYPRIQ SIKVQFTEYK KEKGFILTSQ KEDEIMKVQN NSVIINCDGF YLISLKGYFS QEVNISLHYQ KDEEPLFQLK KVRSVNSLMV ASLTYKDKVY LNVTTDNTSL DDFHVNGGEL ILIHQNPGEF CVL<HHHHHHH>

#### **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**

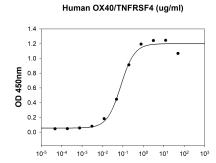


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

## **Biological Activity**

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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.

