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## Recombinant mouse OX40/TNFRSF4 protein

Catalog Number: ATGP4141

## **PRODUCT INFORMATION**

## **Expression system**

**HEK293** 

### **Domain**

20-211aa

#### UniProt No.

P47741

## **NCBI Accession No.**

NP 035789.1

#### **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**

48.6kDa (435aa)

## Concentration

0.25mg/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)

## **Biological Activity**

Measured by its binding ability in a functional ELISA with Mouse OX40 Ligand/TNFSF4 (CAT# ATGP4022). The ED50 range  $\leq 0.4$  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.



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## **BACKGROUND**

## **Description**

TNFRSF4, also known as CD134, is a member of the TNFR-superfamily of receptors. This protein is a receptor for TNFSF4/OX40L/GP34 and a costimulatory molecule implicated in long-term T-cell immunity. OX40-OX40L interactions regulate antigen-specific T-cell expansion and survival, cytokine production. It also modulates cytokine receptor signalling. Therefore the interaction between TNFRSF4 and CD40L plays a key role in the development of multiple imflammatry and autoimmune disease. It has been implicated in the pathologic cytokine storm associated with certain viral infections, including the H5N1 bird flu. Recombinant mouse OX40/TNFRSF4, fused to hIgG-His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

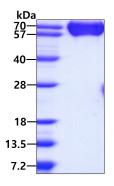
<DGSM>VTARRL NCVKHTYPSG HKCCRECQPG HGMVSRCDHT RDTLCHPCET GFYNEAVNYD TCKQCTQCNH RSGSELKQNC TPTQDTVCRC RPGTQPRQDS GYKLGVDCVP CPPGHFSPGN NQACKPWTNC TLSGKQTRHP ASDSLDAVCE DRSLLATLLW ETQRPTFRPT TVQSTTVWPR TSELPSPPTL VTPEGP<LEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGKH HHHHH>

## **General References**

Schreiber TH, et al, (2012) J Immunol. 189:3311-3318. Webb GJ, et al, (2016) Clin Rev Allergy Immunol. 50:312-332. Zhou B, et al, (2020) Transplant Proc. 52:398-405.

## **DATA**

### **SDS-PAGE**

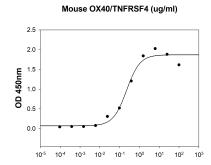


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

## **Biological Activity**

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Mouse OX40 Ligand/TNFSF4 (CAT# ATGP4022) is coated at 1 ug/ml (100 ul/well) can bind Mouse OX40/TNFRSF4. The ED50 range  $\leq$  0.4 ug/ml.

