# **PRODUCT INFORMATION**

**Expression system** Baculovirus

**Domain** 22-401aa

**UniProt No.** 008712

NCBI Accession No. NP\_032790

# **Alternative Names**

Tumor necrosis factor receptor superfamily member 11B isoform 1, Osteoclastogenesis inhibitory factor, Osteoprotegerin, OCIF, OPG, TR1

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

44.4 kDa (388aa)

# Concentration

0.25mg/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 ability to inhibit cytotoxicity using Jurkat human acute T cell leukemia cells in the presence of 2 ng/ml of human TRAIL (CAT# ATGP3588). The ED50 range  $\leq$  50 ng/ml.

# 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.



# BACKGROUND

# Description

Tnfrsf11b, also known as tumor necrosis factor receptor superfamily member 11B, is a member of the tumor necrosis factor receptor TNFR superfamily. It inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Also It plays a role in preventing arterial calcification. Recombinant mouse Tnfrsf11B, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### **Amino acid Sequence**

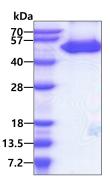
ETLPPKYLHY DPETGHQLLC DKCAPGTYLK QHCTVRRKTL CVPCPDHSYT DSWHTSDECV YCSPVCKELQ SVKQECNRTH NRVCECEEGR YLEIEFCLKH RSCPPGSGVV QAGTPERNTV CKKCPDGFFS GETSSKAPCI KHTNCSTFGL LLIQKGNATH DNVCSGNREA TQKCGIDVTL CEEAFFRFAV PTKIIPNWLS VLVDSLPGTK VNAESVERIK RRHSSQEQTF QLLKLWKHQN RDQEMVKKII QDIDLCESSV QRHLGHSNLT TEQLLALMES LPGKKISPEE IERTRKTCKS SEQLLKLLSL WRIKNGDQDT LKGLMYALKH LKTSHFPKTV THSLRKTMRF LHSFTMYRLY QKLFLEMIGN QVQSVKISCL <LEHHHHHH>

#### **General References**

Min H., et al. (2000) J Exp Med. 192:463-474. Simonet WS., et al. (1997) Cell. 89:309-319.

# DATA

### SDS-PAGE



**Biological Activity** 

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

NKMAXBiO we support you, we believe in your research Recombinant mouse OPG/TNFRSF11B protein Catalog Number: ATGP4164

Mouse OPG/TNFRSF11B (ng/ml)

Human Mouse OPG/TNFRSF11B inhibits Human TRAIL (CAT# ATGP3588) cytotoxicity in the Jurkat human acute T cell leukemia cells. The ED50 range  $\leq$  50 ng/ml.

