

Recombinant mouse OPG/TNFRSF11B protein

Catalog Number: ATGP4164

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-401aa

UniProt No.

O08712

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.

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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

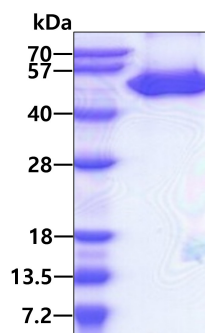
ETLPPKYLHY DPETGHQLLC DKCAPGTYLK QHCTVRRKTL CVPCPDHSYT DSWHTSDECV YCSPVCKELQ SVKQECNRTH
NRVCECEEGR YLEIEFCLKH RSCPPGSGVV QAGTPERNVT CKKCPDGFFS GETSSKAPCI KHTNCSTFGL LLIQKGNATH
DNVCSGNREA TQKCGIDVT CEEAFFRFAV PTKIIPNWLS VLVDSLPGTK VNAESVERIK RRHSSQEQTF QLLKLWKHQN
RDQEMVKKII QDIDLCESSV QRHLGHSNLT TEQLLALMES LPGKKISPEE IERTRKTCKS SEQLLKLLSL WRIKNGDQDT
LKGLMYALKH LKTSHPKTV THSLRKTMRF LHSFTMYRLY QKLFLMIGN 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



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

Biological Activity

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

