Recombinant mouse RANK/TNFRSF11A protein

Catalog Number: ATGP4155

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
31-214aa

UniProt No.
O35305

NCBI Accession No.
NP_033425.3

Alternative Names
TNF receptor superfamily member 11a, Tumor necrosis factor receptor superfamily member 11A, Osteoclast differentiation factor receptor, Receptor activator of NF-KB, Familial expansile osteolysis, TRANCE receptor, RANK, CD265, FEO, ODFR, TRANCE-R, TNR11

PRODUCT SPECIFICATION

Molecular Weight
47.5 kDa (426aa)

Concentration
1mg/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 binding ability in a functional ELISA with Mouse RANKL/TNFSF11 (CAT# ATGP3915). The ED50 range ≤ 200 ng/ml.

Tag
hIgG-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

RANK, as known as Tumor necrosis factor receptor superfamily member 11A (TNFRSF11A) is a member of the tumor necrosis factor receptor (TNFR) molecular sub-family. It is the receptor for RANK-Ligand (RANKL) and part of the RANK/RANKL/OPG signaling pathway that regulates osteoclast differentiation and activation. It is associated with bone remodeling and repair, activation of NF-kappa B and c-jun N-terminal kinase, enhancement of T cell growth and dendritic cell function, immune cell function, lymph node development, thermal regulation, and mammary gland development. It is able to block TRANCE induced biological activity. Recombinant mouse RANK, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

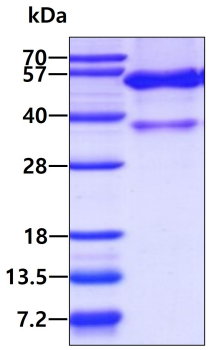
<ADL>VTPPCTQ ERHYEHLGRC CSRCEPGKYL SSKCTPTSDS VCLPCGPDEY LDTWNEEDKC LLHKVCDAGK ALVAVDPGNH TAPRRCACTA GYHWNSDCEC CRRNTECAPG FGAQHPLQLN KDTVCTPCLL GFFSDVFSST DKCKPWTNCT LLGKLEAHQG TTESDVVCSS SMTLRRPPKE AQAYLPS<LEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSRDE LTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTPPV LDSDGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH>

General References

Anderson, D.M. et al. (1997) Nature 390, 175-179.
Nakagawa, N. et al. (1998) Biochem. Biophys. Res. Commun. 245:395-400.
Bharat B. Aggarwal. (2003) Nature 3, 745-756.

DATA

SDS-PAGE



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

Biological Activity

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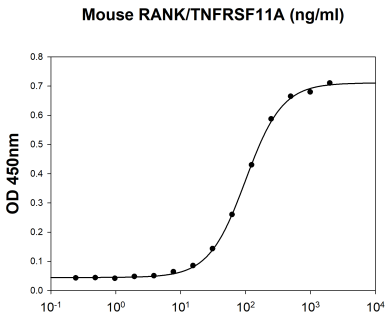

Mouse RANKL/TNFSF11 (CAT# ATGP3915) is coated at 1 ug/ml (100 ul/well) can bind Mouse RANK/TNFRSF11A. The ED50 range ≤ 200 ng/ml.