

# Recombinant mouse TRANCE/RANKL/TNFSF11 protein

Catalog Number: ATGP3851

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

158-316aa

### UniProt No.

O35235

### NCBI Accession No.

NP\_035743

### Alternative Names

Tumor necrosis factor ligand superfamily member 11, Osteoclast differentiation factor, ODF, Osteoprotegerin ligand, OPGL, Receptor activator of nuclear factor kappa-B ligand, RANKL, TNF-related activation-induced cytokine, TRANCE, CD254

## PRODUCT SPECIFICATION

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### Molecular Weight

17.9 kDa (160aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid In. 20mM Tris-HCl buffer (pH8.5) containing 0.1M NaCl

### Purity

> 90% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### Application

SDS-PAGE

### 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

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### Description

TRANCE, also known as tumor necrosis factor ligand superfamily member 11, is a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast

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differentiation and activation. TRANCE also has a function in the immune system, where it is expressed by T helper cells and is thought to be involved in dendritic cell maturation. TRANCE is important in bone metabolism. This natural and necessary surface-bound molecule (also known as CD254) found on osteoblasts serves to activate osteoclasts, which are the cells involved in bone resorption. Recombinant Mouse TRANCE protein was expressed in *E. coli* and purified by using conventional chromatography.

## Amino acid Sequence

MKPEAQPF~~AH~~ LTINAASIPS GSHKVTLSSW YHDRGWAKIS NMTLSNGKLR VNQDGFYLY ANICFRHHET SGSVPTDY~~LQ~~  
LMVYVVKTSI KIPSSHNLMK GGSTKNWSGN SEHFYSINV GGFFKLRAGE EISIQVSNPS LLDPDQDATY FGAFKVQDID

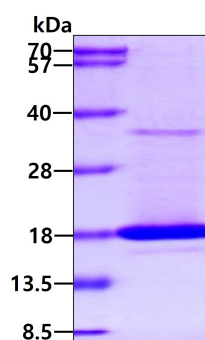
## General References

Lam J., et al. (2001). *J. Clin. Invest.* 108(7):971-9

Ito S., et al. (2002). *J. Biol. Chem.* 277(8):6631-6

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.