

RP01837

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# Recombinant Mouse TNFSF11/RANKL/CD254 Protein

Catalog No.: RP01837 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	21943	O35235

### Tags

N-His

### Synonyms

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; Cleaved into: Tumor necrosis factor ligand superfamily member 11; membrane form; Tumor necrosis factor ligand superfamily member 11; soluble form , Tnfsf11; Opgl; Rankl; Trance

## Product Information

Source	Purification
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### Endotoxin

<0.1EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

RANKL (TNFSF11), a type II transmembrane protein, is receptor activator of NF-κB (RANK) ligand. RANKL is an activator of RANK. When binding to RANK, it induces the differentiation of monocyte/macrophage-lineage cells into osteoclasts and leads to osteoclast precursor maturation. RANKL is critical for osteoclasts maturation, bone modeling, and bone remodeling, as well as the development of lymph nodes (LNs).

## Basic Information

### Description

Recombinant Mouse TNFSF11/RANKL/CD254 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe139-Asp316) of Mouse TNFSF11/RANKL/CD254 (Accession #NP\_035743.2) fused with a His tag at the N-terminus.

### Bio-Activity

Measured by its ability to induce osteoclast differentiation of Raw 264.7 cells.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Contact

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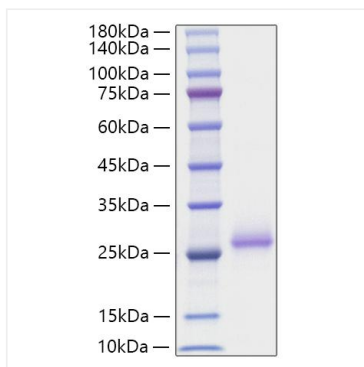


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## Validation Data

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Recombinant Mouse  
TNFSF11/RANKL/CD254 Protein was  
determined by SDS-PAGE under  
reducing conditions with Coomassie  
Blue.