

# Recombinant Mouse TNFSF11/RANKL/CD254 Protein

Catalog No.: RP00745 Recombinant 1 Publications

### **Sequence Information**

**Species Gene ID Swiss Prot**Mouse 21943 035235

# Tags

No tag

### **Synonyms**

Tumor necrosis factor ligand superfamily member 11;Tnfsf11;Osteoclast differentiationfactor;ODF;Osteoprotegeri n ligand;OPGL;Receptor activator of nuclear factor kappa-Bligand;RANKL;TNF-related activation-induced cytokine;TRANCE;CD254; TNFSF11

### **Product Information**

Source	Purification

*E. coli* ≥ 95 % as

determined by SDS-

PAGE.

### Calculated MW Observed MW

20.06 kDa 15-25 kDa

#### **Endotoxin**

 $< 0.1 \; \text{EU/}\mu\text{g}$  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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Contact

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# **Background**

Mouse tumor necrosis factor ligand superfamily member 11(Tnfsf11) is a member of the tumor necrosis factor(TNF) cytokine family. Tnfsf11 is widely expressed in cells including T cells and T cell rich organs, such asthymus and lymph nodes. This cytokine can bind to TNFRSF11B/OPG andTNFRSF11A/RANK. Tnfsf11 is involvedin a number of fundamental biological processes such as acting as regulator of interactions between T-cells anddendritic cells, the regulation of the T-cell-dependent immune response and enhancing bone-resorption inhumoral hypercalcemia of malignancy. It augments the ability of dendritic cells to stimulate naive T-cellproliferation.

### **Basic Information**

### Description

Recombinant Mouse TNFSF11/RANK L/TRANCE Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Arg156-Asp316) of mouse TNFSF11/RANK L/TRANCE (Accession #O35235).

### **Bio-Activity**

Measured by its ability to induce osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED<sub>50</sub> for this effect is 2.30-9.22 ng/mL, corresponding to a specific activity of  $1.08 \times 10^5 \sim 4.35 \times 10^5$  units/mg.

### **Shipping**

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

### Storage

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

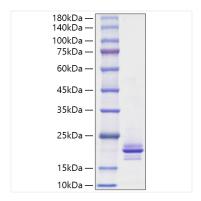
After reconstitution, the protein solution is stable at -20  $^{\circ}$ C for 3 months, at 2-8  $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

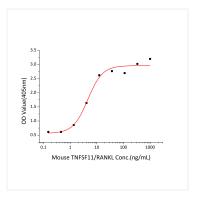
### **Operational Notes**

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

# **Validation Data**



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



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