

# Human RANKL/OPGL/TNFSF11 (CD254) (Fc Tag) recombinant protein



Catalog Number: 503998

## General Information

### Gene Name Synonym

Osteoclast differentiation factor; Osteoprotegerin ligand; Receptor activator of nuclear factor kappa-B ligand; TNF-related activation-induced cytokine; Tumor necrosis factor ligand superfamily member 11, membrane form; Tumor necrosis factor ligand superfamily member 11, soluble form

### Protein Construction

A DNA sequence encoding the human TNFSF11 isoform 2 (O14788-2) (Gly 63-Asp 244) was fused with the Fc region of human IgG1 at the N-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA. Immobilized human TNFRSF11B-His (Cat#10271-H08H) at 10 µg/ml (100 µl/well) can bind human Fc-TNFSF11 (Cat#11682-H01H) with a linear ranger of 3.125-200 ng/mL.
2. The bioactivity of hRANKL was determined by measuring the ability of hRANKL to induce TRAP activity in Raw 264.7 cells. The ED<sub>50</sub> for this effect is typically 0.1-0.4 µg/mL.

### Purity

> 86 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

## Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Glu 20

### Molecular Mass

The recombinant human TNFSF11/Fc chimera is a disulfide-linked homodimeric protein. The reduced monomer consists of 443 amino acids and has a calculated molecular mass of 48.9 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rh TNFSF11/Fc monomer is approximately 50-55 kDa due to the glycosylation.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

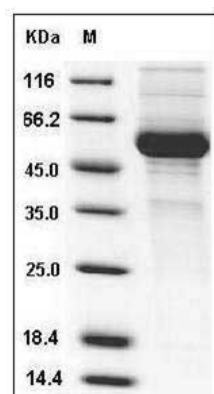
### SDS-PAGE

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Protein (Fc Tag) SDS-PAGE