

# Human Osteoprotegerin/TNFRSF11B (His Tag) recombinant protein



Catalog Number: 500115

## General Information

### Gene Name Synonym

Osteoclastogenesis inhibitory factor;  
Osteoprotegerin

### Protein Construction

A DNA sequence encoding the human TNFRSF11B (NP\_002537.3) (Met 1-Leu 401) was fused with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

1. Measured by its ability to inhibit TRAIL mediated cytotoxicity using L-929 mouse fibroblast cells treated with TRAIL. The  $ED_{50}$  for this effect is typically 5-20 ng/mL in the presence of 20 ng/mL Recombinant Human TRAIL/TNFSF10 (Catalog # 10409-HNAE).
2. Measured by its binding ability in a functional ELISA. Immobilized human TNFRSF11B-His at 10  $\mu$ g/ml (100  $\mu$ l/well) can bind human Fc-TNFSF11 (Cat#11682-H01H) with a linear range of 3.125-200 ng/mL.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu$ g 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 22

### Molecular Mass

The secreted recombinant human TNFRSF11B comprises 391 amino acids and has a predicted molecular mass of 45.3 kDa. As a result of glycosylation, rhTNFRSF11B migrates as an approximately 55 kDa band in SDS-PAGE under reducing conditions.

### 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.

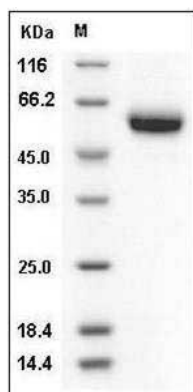
### SDS-PAGE

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