

For Research Use Only

# Recombinant Mouse Osteoprotegerin/TNFRSF11B protein (His Tag)

Catalog Number: Eg0598



## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Mouse Osteoprotegerin protein Glu22-Leu401 (Accession# Q6PI12(Q138R)) with a His tag at the C-terminus.

**GeneID:**  
18383

**Accession:**  
Q6PI12

**Predicted Molecular Mass:**  
44.6 kDa

**SDS-PAGE:**  
47-55 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

TNFRSF11B, also known as Osteoprotegerin (OPG) or OCIF, is a member of the tumor necrosis factor receptor super family (TNFRSF). It is a secreted glycoprotein that inhibits osteoclastogenesis and is involved in the regulation of bone density. Osteoprotegerin acts as decoy receptor for receptor activator of nuclear factor- $\kappa$ B ligand (RANKL) and neutralizes its function in osteoclastogenesis. Osteoprotegerin may function as a soluble decoy receptor for tumor necrosis factor (TNF)-related apoptosis inducing ligand (TRAIL) and inhibits TRAIL-induced apoptosis. TRAIL blocks osteoprotegerin mediated inhibition of osteoclastogenesis.

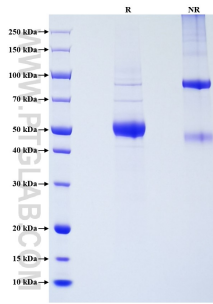
## References

1. Simonet WS, et al. Osteoprotegerin: a novel secreted protein involved in the regulation of bone density. *Cell*. 1998;95:91-98.
2. Emery JG, et al. Osteoprotegerin is a receptor for the cytotoxic ligand TRAIL. *J Biol Chem*. 1998;273(23):14363-1.
3. Yasuda H, et al. Osteoclast differentiation factor is a ligand for osteoprotegerin/osteoclastogenesis-inhibitory

## Synonyms

Tnfrsf11b, OCIF, Opg, Osteoprotegerin, PDB5

## Selected Validation Data



Purity of Recombinant Mouse Osteoprotegerin was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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