

Human RANKL/OPGL/TNFSF11 (CD254) recombinant protein



Catalog Number: 502788

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 (O14788-2) (Gly 63-Asp 244) was expressed.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Immobilized human TNFSF11 at 10 µg/ml (100 µl/well) can bind biotinylated human TNFRSF11B-His (Cat:500115), The EC₅₀ of biotinylated human TNFRSF11B-His (Cat:500115) is 5.7-13.4 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 ED₅₀ for this effect is typically 1.5-7.5 ng/mL.

Purity

> 95 % 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

Gly 63

Molecular Mass

The recombinant human TNFSF11 consists of 182 amino acids and has a calculated molecular mass of 20.5 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of the protein is approximately 27 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

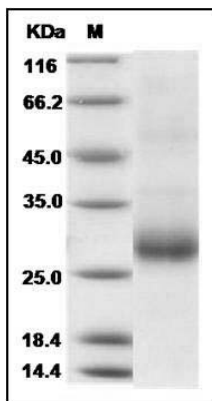
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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Protein SDS-PAGE