

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



Catalog Number: 503658

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 (AAC51762.1) (Gly63-Asp244) was expressed with the Fc region of mouse IgG1 at the N-terminus.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Immobilized mouse mFc-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 6.0-14.1 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 15-45 ng/mL.

Purity

> 90 % 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

Asp

Molecular Mass

The recombinant human TNFSF11/mFc comprises 418 amino acids and has a predicted molecular mass of 47.1 kDa. The apparent molecular mass of the monomer is approximately 48-56 kDa in SDS-PAGE under reducing conditions due to 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

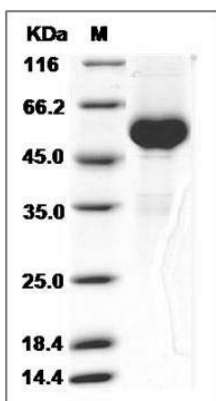
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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Protein (Fc Tag) SDS-PAGE