Human RANKL / OPGL / TNFSF11 / CD254 Protein (Fc Tag)

Catalog Number: 11682-H01H

General Information

Gene Name Synonym:
CD254; hRANKL2; ODF; OPGL; OPTB2; RANKL; sOdf; TRANCE

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.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 86 % as determined by SDS-PAGE

Bio 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 range 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 ED50 for this effect is typically 7-35 ng/mL.

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

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:
Detailed reconstitution instructions are sent along with the products.

References