

Active Recombinant Human TNFSF11 protein

Cat. No. TNFSF11-2200H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF11 protein(AAC51762.1)(Gly64-Asp245) was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Gly64-Asp245
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	1. Immobilized human TNFSF11 at 2 µg/ml (100 µl/well) can bind human Osteoprotegerin hFc, The EC50 of human Osteoprotegerin hFc is 5-40 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.
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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 85 % as determined by SDS-PAGE

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Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C
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 It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name TNFSF11 tumor necrosis factor (ligand) superfamily, member 11 [Homo sapiens]

Official Symbol TNFSF11

Synonyms TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; tumor necrosis factor ligand superfamily member 11; CD254; ODF; OPGL; RANKL; TRANCE; osteoprotegerin ligand; osteoclast differentiation factor; TNF-related activation-induced cytokine; receptor activator of nuclear factor kappa B ligand; receptor activator of nuclear factor kappa-B ligand; sOdf; OPTB2; hRANKL2;

Gene ID 8600

mRNA Refseq NM_003701

Protein Refseq NP_003692

MIM 602642

UniProt ID O14788

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