

Active Recombinant Human TNFSF11 protein, rFc-tagged(HPLC-verified)

Cat. No. TNFSF11-425H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNFSF11 protein (AAC51762.1) (Gly64-Asp245), fused with rFc tag, 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	<p>1. Immobilized Recombinant Human Osteoprotegerin / TNFRSF11B Protein (His Tag) at 2 µg/mL (100 µL/well) can bind Recombinant Human RANKL Protein (ECD, rFc Tag), the EC50 is 15-45 ng/mL.</p> <p>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.</p>
Molecular Mass	The recombinant human TNFSF11 comprises 410 amino acids and has a predicted molecular mass of 46.18 kDa. The apparent molecular mass of the protein is approximately 134.21 kDa and 54.28 kDa in SDS-PAGE under reducing conditions due to glycosylation.

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Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE. > 90 % as determined by SEC-HPLC.
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

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UniProt ID

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