

## Recombinant Human TNFSF11, His-tagged

Cat. No. TNFSF11-3553H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant humanTNFSF11 protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
<b>Species</b>	Human
<b>Source</b>	Human
<b>Description</b>	TNFSF11,also known as RANKL, is a member of the tumor necrosis factor (TNF) cytokinefamily which is a ligand for osteoprotegerin and functions as a key factorfor osteoclast differentiation and activation. TNFSF11 also has a function inthe immune system, where it is expressed by T helper cells and is thought tobe involved in dendritic cell maturation. TNFSF11 is important in bonemetabolism. This natural and necessary surface- bound molecule (also known asCD254) found on osteoblasts serves to activate osteoclasts, which are the cellsinvolved in bone resorption.
<b>Form</b>	Liquid. 20mM Tris-HClbuffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.
<b>Molecular Weight</b>	22.3 kDa(199 aa), confirmed by MALDI-TOF.
<b>Purity</b>	> 80%by SDS - PAGE
<b>Concentration</b>	0.5 mg/ml(determined by Bradford assay)
<b>Sequences of aminoacids</b>	MGSSHHHHHHSSGLVPRGSH M IRAEKAMVD GSWLDLAKRS KLEAQPFAHL T INATDIPSG SHKVSLSWYHDRGWAKISN MTFNSGKLIV NQDGFYYLYA

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NICFRHHETS GD LATEYLQL MVYVTKTSIK IPSSHTLMKGGSTKYWSGNS EF  
HFYSINVG GFFKLRSGEE ISIEVSNPSL LDPDQDATYF GAFKVRDID

**Storage**

Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## 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; ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE;hRANKL2; tumor necrosis factor ligand superfamily member 11; osteoprotegerinligand; osteoclast differentiation factor; TNF-related activation-inducedcytokine; receptor activator of nuclear factor kappa B ligand; receptoractivator of nuclear factor kappa-B ligand; OTTHUMP00000018328;OTTHUMP00000178585

**Gene ID**

8600

**mRNA Refseq**

NM\_003701

**Protein Refseq**

NP\_003692

**MIM**

602642

**UniProt ID**

O14788

**Chromosome  
Location**

13q14

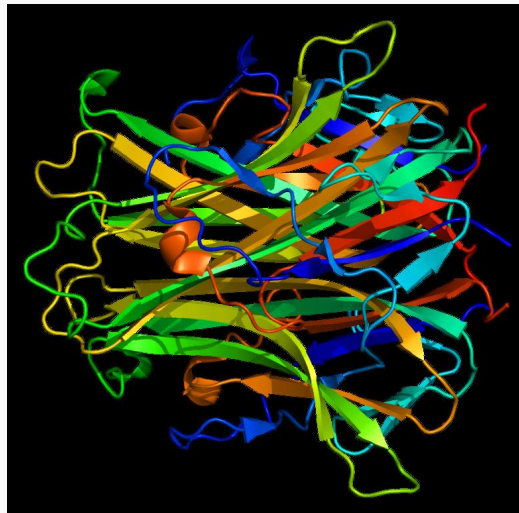
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<b>Pathway</b>	Cytokine-cytokine receptor interaction;IL6-mediated signaling events; Osteoblast Signaling; Osteoclastdifferentiation; Rheumatoid arthritis
<b>Function</b>	cytokine activity; receptor activity; tumornecrosis factor receptor binding; tumor necrosis factor receptor superfamilybinding

**PDB rendering based on 1s55.**



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