Recombinant Human TNFSF11, His-tagged

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

SPECIFICATION

Product Overview	Recombinant humanTNFSF11 protein, fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
Species	Human
Source	Human
Description	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.
Form	Liquid. 20mM Tris-HClbuffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.
Molecular Weight	22.3 kDa(199 aa), confirmed by MALDI-TOF.
Purity	> 80%by SDS - PAGE
Concentration	0.5 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH M IRAEKAMVD GSWLDLAKRS KLEAQPFAHL T INATDIPSG SHKVSLSSWYHDRGWAKISN MTFSNGKLIV NQDGFYYLYA

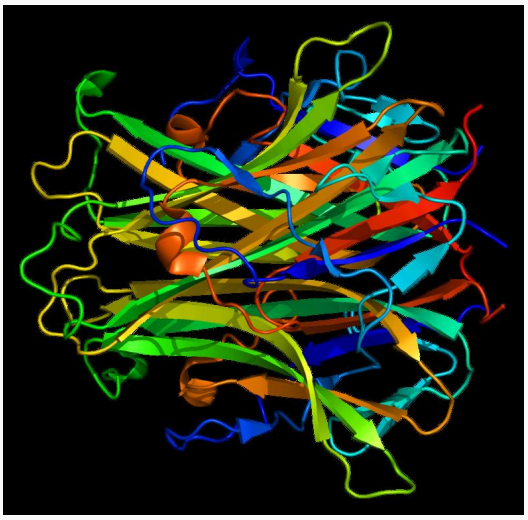
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	NICFRHHETS GDLATEYLQL MVYVTKTSIK IPSSHTLMKGGSTKYWSGNS EF HFYSINVG GFFKLRSGEE ISIEVSNPSL LDPDQDATYF GAFKVRDID
Storage	Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and 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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Pathway	Cytokine-cytokine receptor interaction;IL6-mediated signaling events; Osteoblast Signaling; Osteoclastdifferentiation; Rheumatoid arthritis
Function	cytokine activity; receptor activity; tumornecrosis factor receptor binding; tumor necrosis factor receptor superfamilybinding
PDB rendering based on 1s55.	

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