

Recombinant Human Tumor Necrosis Factor (ligand) Superfamily, Member 11, His-tagged

Cat. No. TNFSF11-349H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNFSF11 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	Human
Protein Length	140-317 a.a.
Description	TNFSF11, also known as RANKL, is a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. TNFSF11 also has a function in the immune system, where it is expressed by T helper cells and is thought to be involved in dendritic cell maturation. TNFSF11 is important in bone metabolism. This natural and necessary surface-bound molecule (also known as CD254) found on osteoblasts serves to activate osteoclasts, which are the cells involved in bone resorption.
Concentration	0.5 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 20% glycerol, 0.1M NaCl and 1mM DTT.
Purity	> 80% by SDS -PAGE

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Sequence	140-317 amino acids:MGSSHHHHHH SSGLVPRGSH MIRA EKAMVD GSWLDLAKRS KLEAQPFAHL TINATDIPSG SHKVSLSWYHDRGWAKISN MTFSNGKLIV NQDGFYYLYA NICFRHHETS GDLATEYLQL MVYVTKTSIK IPSSHTLMKGGSTKYWSGNS EFHFYSINVG GFFKLRS GEE ISIEVSNPSL LDPDQDATYF GAFKVRDID
Molecular Mass	22.3 kDa(199aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	TNFSF11
GENE INFORMATION	
Gene Name	TNFSF11 tumor necrosis factor (ligand) superfamily, member 11 [Homo sapiens]
Synonyms	TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2; tumor necrosis factor ligand superfamily member 11; OTTHUMP00000018328; OTTHUMP000000178585; 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
Gene ID	8600
mRNA Refseq	NM_003701
Protein Refseq	NP_003692

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MIM	602642
UniProt ID	O14788
Chromosome Location	13q14
Pathway	Cytokine-cytokinereceptor interaction; IL6-mediated signaling events; Osteoblast Signaling;Osteoclast differentiation; Rheumatoid arthritis
Function	cytokineactivity; receptor activity; tumor necrosis factor receptor binding; tumornecrosis factor receptor superfamily binding
PDBrendering based on 1s55.	