

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

Cat. No. TNFSF11-4154H Lot. No. (See product label)

SPECIFICATION

Product Overview	RANKL Human Recombinant fused to GST tag produced in E.Coli is a single, non-glycosylated polypeptide having a molecular mass of 47 kDa. RANKL is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
Description	RANKL binds to tnfrsf11b/opg and to tnfrsf11a/rank. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive t-cell proliferation. May be an important regulator of interactions between t-cells and dendritic cells and may play a role in the regulation of the t-cell-dependent immune response. sRANKL may also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. By injecting soluble RANKL, novel osteopenia model mice were established in only 50 hours. Degree of bone loss can be controlled by changing doses of sRANKL. RANKL can be used in establishing osteopenia model for in vivo screening of drugs for osteoporosis, determination of effect and mechanism, evaluation of bone anabolic drugs.
Form	The soluble RANKL protein solution contains 1mM EDTA and PBS pH-7.4.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Physical Appearance	Sterile Filtered colorless clear solution.

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Storage Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw 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; OTTHUMP00000018328; OTTHUMP00000178585; 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

MIM 602642


UniProt ID O14788

Chromosome Location 13q14

Pathway Cytokine-cytokine receptor interaction; IL6-mediated signaling events; Osteoblast Signaling; Osteoclast differentiation; Rheumatoid arthritis; Rheumatoid arthritis

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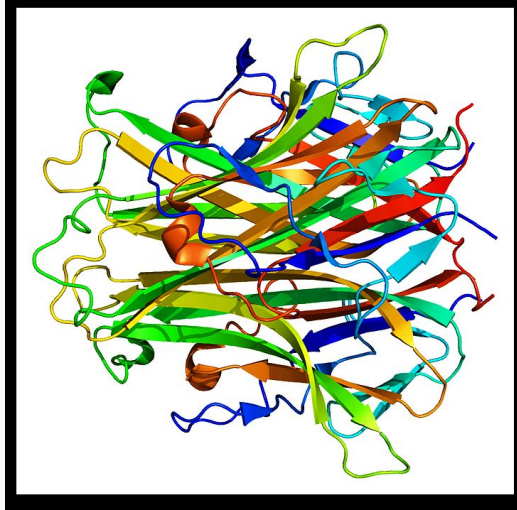
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Function


cytokine activity; receptor activity; tumor necrosis factor receptor binding; tumor necrosis factor receptor superfamily binding

PDB rendering based on 1s55.



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