

Recombinant Mouse Tnfsf11, Fc Chimera

Cat. No. Tnfsf11-2123M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnfsf11 was produced in <i>HEK 293 cells</i> . The extracellular domain of mouse RANKL (aa 157-316) is fused to the Fc portion of human IgG1. MW = ~55kDa.
Species	Mouse
Source	HEK293
Protein Length	157-316 a.a.
Description	RANKL (Receptor Activator for Nuclear Factor κ B Ligand), also known as TNF-related activation-induced cytokine (TRANCE), osteoprotegerin ligand (OPGL), and ODF (osteoclast differentiation factor), is a member of the tumor necrosis factor family cytokine. RANKL is essential for osteoclast formation, activation, and survival. RANKL through interaction with its receptor RANK can modulate matrix degradation and inflammation. RANKL and RANK have essential roles in lymph node formation, establishment of the thymic microenvironment, and development of a lactating mammary gland during pregnancy. Consequently, novel drugs specifically targeting RANK, RANKL, and their signaling pathways in osteoclasts are expected to revolutionize the treatment of various ailments associated with bone loss, such as arthritis, periodontal disease, cancer metastases, and osteoporosis.
Purity	≥95% (SDS-PAGE).
Formulation	Lyophilized. Contains PBS.

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Reconstitution	Reconstitute with 100µl sterile water.
Endotoxin Content	<0.1EU/g purified protein (LAL test; Bio Whittaker).
Concentration	0.1mg/ml after reconstitution.
Storage	Store at -20°C.
GENE INFORMATION	
Gene Name	Tnfsf11 tumor necrosis factor (ligand) superfamily, member 11 [<i>Mus musculus</i>]
Synonyms	Tnfsf11; tumor necrosis factor (ligand) superfamily, member 11; ODF; OPG; OPGL; RANKL; Ly109l; Trance; OPG ligand; osteoprotegerin ligand; osteoclast differentiation factor; receptor activator of NF-kappaB ligand; tumor necrosis factor-related activation-induced cytokine; Ly109l
Gene ID	21943
mRNA Refseq	NM_011613
Protein Refseq	NP_035743
UniProt ID	O35235
Chromosome Location	14 D3; 14 45.0 cM
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity; protein binding; receptor activity; tumor necrosis factor receptor

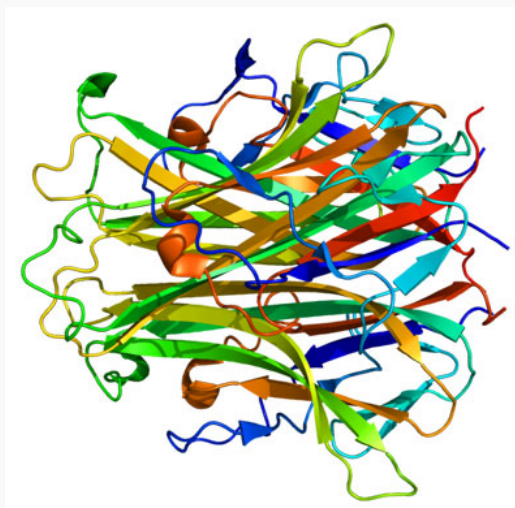
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binding

PDB rendering based
on 1s55.



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