

## Recombinant Mouse TNFSF11, Fc-tagged

**Cat. No.** Tnfsf11-198M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse TNFSF11 encoding the extracellular domain of mouse TNFSF11 (Arg 72-Asp 316), fused with the Fc region of human IgG1 at the N-terminus, was expressed in Human Cells.
<b>Species</b>	Mouse
<b>Source</b>	Human Cells
<b>ProteinLength</b>	72-316 a.a.
<b>Description</b>	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.
<b>MolecularMass</b>	The recombinant mouse TNFSF11/Fc is a disulfide-linked homodimer. The reduced monomer comprises 505 amino acids and has a calculated molecular mass of 56 kDa. The apparent molecular mass of the monomer is approximately 50 kDa in SDS-PAGE under reducing conditions.
<b>PredictedN terminal</b>	Glu
<b>Formulation</b>	Lyophilized from 0.2µm filtered solution of PBS, pH7.4.

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<b>Purity</b>	>87 % as determined by SDSPAGE.
<b>Endotoxin</b>	<1.0 EU per µg of the protein as determined by the LAL method
<b>Storage</b>	Store it under sterile conditions at -70 oC. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>OfficialSymbol</b>	Tnfsf11

## GENE INFORMATION

<b>Gene Name</b>	Tnfsf11 tumor necrosis factor (ligand) superfamily, member 11 [ <i>Mus musculus</i> ]
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">21943</a>
<b>mRNA Refseq</b>	<a href="#">NM_011613</a>
<b>Protein Refseq</b>	<a href="#">NP_035743</a>
<b>UniProt ID</b>	<a href="#">O35235</a>
<b>Chromosome Location</b>	14 D3
<b>Pathway</b>	Cytokine-cytokine receptor interaction

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<b>Function</b>	cytokine activity; protein binding; receptor activity; tumor necrosis factor receptor binding
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<b>PDB rendering based on 1s55.</b>
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