

Recombinant Mouse TNFSF11, Fc-tagged

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Human Cells
ProteinLength	72-316 a.a.
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.
MolecularMass	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.
PredictedN terminal	Glu
Formulation	Lyophilized from 0.2µm filtered solution of PBS, pH7.4.

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

GENE INFORMATION

Gene Name	Tnfsf11 tumor necrosis factor (ligand) superfamily, member 11 [Mus musculus]
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
Pathway	Cytokine-cytokine receptor interaction

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Function

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

**PDB rendering
based on 1s55.** Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA