

Active Recombinant Human TNFRSF11A, Fc-tagged, Biotinylated

Cat. No. TNFRSF11A-663H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The recombinant human RANK-Fc fusion is expressed as a 411 amino acid protein consisting of Ile30 - Pro212 region of RANK (UniProt accession #Q9Y6Q6) and a C-terminal Fc from human IgG1, which exists as a dimer/tetramer/oligomer under non-reducing conditions.
Species	Human
Source	Human Cells
ProteinLength	30-212 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
Bio-activity	Binds to its ligand human RANKL and inhibits RANKL-induced signaling activity including osteoclast differentiation in mouse monocyte/macrophage cells RAW 264.7.
Molecular Mass	Calculated molecular mass (kDa): 45.7; Estimated by SDS-PAGE under reducing condition (kDa): ~55
Endotoxin	<0.1 eu="" per="" 1="" μg="" of="" purified="" recombinant="" protein="" determined="" by="" the="" lab="">
Purity	>95% judged by SDS-PAGE under reducing condition

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Storage The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

Conjugation Biotin

GENE INFORMATION

Gene Name TNFRSF11A tumor necrosis factor receptor superfamily, member 11a, NFKB activator [Homo sapiens]

Official Symbol TNFRSF11A

Synonyms TNFRSF11A; tumor necrosis factor receptor superfamily, member 11a, NFKB activator; tumor necrosis factor receptor superfamily, member 11a, activator of NFKB; tumor necrosis factor receptor superfamily member 11A; CD265; RANK; receptor activator of NF-KB; osteoclast differentiation factor receptor; receptor activator of nuclear factor-kappa B; loss of heterozygosity, 18, chromosomal region 1; FEO; OFE; ODFR; OST5; PDB2; OPTB7; TRANCER; LOH18CR1;

Gene ID 8792

mRNA Refseq NM_003839

Protein Refseq NP_003830

MIM 603499

UniProt ID Q9Y6Q6

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Chromosome Location	18q22.1
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Osteoclast Signaling, organism-specific biosystem; Osteoclast differentiation, organism-specific biosystem; Osteoclast differentiation, conserved biosystem; Rheumatoid arthritis, organism-specific biosystem; Rheumatoid arthritis, conserved biosystem;
Function	cytokine binding; metal ion binding; protein binding; receptor activity; transmembrane signaling receptor activity; tumor necrosis factor-activated receptor activity;

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