

## Active Recombinant Human TNFRSF11A, Fc-tagged, Biotinylated

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	30-212 a.a.
<b>Form</b>	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).
<b>Bio-activity</b>	Binds to its ligand human RANKL and inhibits RANKL-induced signaling activity including osteoclast differentiation in mouse monocyte/macrophage cells RAW 264.7.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 45.7; Estimated by SDS-PAGE under reducing condition (kDa): ~55
<b>Endotoxin</b>	<0.1 eu per 1 µg of purified recombinant protein determined by the lal>
<b>Purity</b>	>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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<b>Chromosome Location</b>	18q22.1
<b>Pathway</b>	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;
<b>Function</b>	cytokine binding; metal ion binding; protein binding; receptor activity; transmembrane signaling receptor activity; tumor necrosis factor-activated receptor activity;

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