Recombinant Rat Tnfsf11

Cat. No. Tnfsf11-2680R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Tnfsf11 is a 19.4 kDa polypeptide comprising the TNF homologous region of RANKL (174 amino acid residues). It is expressed in*E. coli.*
Species	Rat
Source	E.coli
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 molecule important in bone metabolism. This natural and necessary surface-bound molecule found on osteoblasts serves to activate osteoclasts, which are the cells involved in bone resorption. Overproduction of RANKL is implicated in a variety of degenerative bone diseases, such as rheumatoid arthritis and psoriatic arthritis.
Purity	Greater than 98% (determined by SDS-PAGE and HPLC analysis).
MW	19.4 kDa.
Endotoxin Level	< 0.1 ng per μg of rHu APO-E4 (1EU/μg).
Formulation	Lyophilized from a sterile-filtered solution with no additives.
Reconstitution	Please Note: Always centrifuge product before opening vial. The lyophilized protein should be reconstituted with distilled, sterile water to a concentration of 0.1-1.0 mg/ml.

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

	For further dilution, carrier protein (0.1% BSA or HSA) should be added to avoid loss of bioactivity.
Storage	The lyophilized protein, though stable at room temperature for up to 3 weeks, is best stored desiccated at -20°C. Reconstituted protein should be used immediately or stored long-term in undiluted working aliquots at -20°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Tnfsf11 tumor necrosis factor (ligand) superfamily, member 11 [Rattus norvegicus]
Synonyms	Tnfsf11; tumor necrosis factor (ligand) superfamily, member 11; ODF; OPGL; TNF-related activation-induced cytokine; TRANCE; osteoclast differentiation factor; osteoprotegerin ligand; receptor activator of nuclear factor kappa B ligand; receptor activator of nuclear factor kappa-B ligand; tumor necrosis factor ligand superfamily member 11; RANKL
Gene ID	117516
mRNA Refseq	NM_057149
Protein Refseq	NP_476490
UniProt ID	Q9ESE2
Chromosome Location	15q11
Pathway	Cytokine-cytokine receptor interaction

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

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