

Recombinant Mouse Tumor Necrosis Factor (Ligand) Superfamily, Member 11

Cat. No. Tnfsf11-116M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse sRANKL produced in E.coli is single, non-glycosylated, polypeptide chain containing 179 amino acids and having a total molecular mass of 20 kDa. CD254 is purified by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein (1mg/ml) was lyophilized with 10mM NaP, pH 7.5+ 50 NaCl.
Solubility	It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

 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

Amino acid sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Phe-Ser-Gly-Ala.
Biological Activity	Measured by its ability to induce osteoclast formation on murine RAW264.7 cells using a concentration of 5.0-10.0 ng/ml.
Storage	Lyophilized TNFSF11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution sRANKL should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

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; 14 45.0 cM

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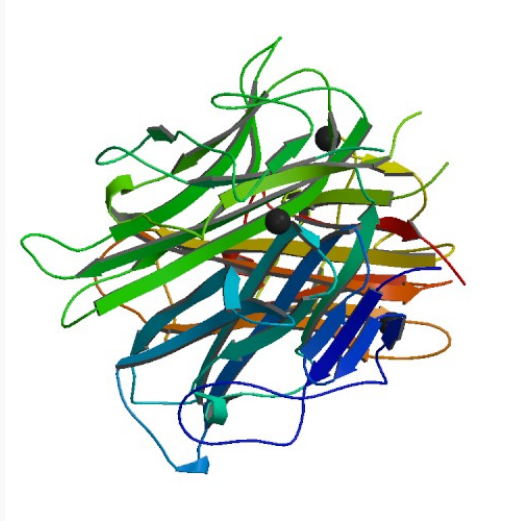
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Pathway Cytokine-cytokine receptor interaction

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

PDB rendering based on 1s55.



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