


Mouse RANKL protein

Cat #: PRP1114

Size: 5 µg /20 µg/100 µg /1 mg

Product Information

	Product Name: Mouse RANKL protein		
	Reconstitution: Use the buffer we provided to reconstitute the lyophilized Mouse RANKL protein		
REF	Catalog Number: PRP1114	LOT	Lot Number: Refer to product label
	Purity: ≥ 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E.coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: RANKL protein is tumor necrosis factor ligand superfamily member 11, also known as Receptor activator of nuclear factor kappa-B ligand, Osteoprotegerin ligand, TNFSF11, RANKL, TRANCE, OPGL and CD254, is expressed in a variety of cells, including osteoblasts, fibroblasts, activated T-cells and bone marrow stromal cells, is also capable of interacting with a decoy receptor called OPG. Tnfsf11 is involved in a number of fundamental biological processes such as acting as regulator of interactions between T-cells and dendritic cells, the regulation of the T-cell-dependent immune response and enhancing bone-resorption in humoral hypercalcemia of malignancy.

Sequence: Amino acid sequence derived from Mouse RANKL soluble form (O35235)(Pro143-Asp316) was expressed.

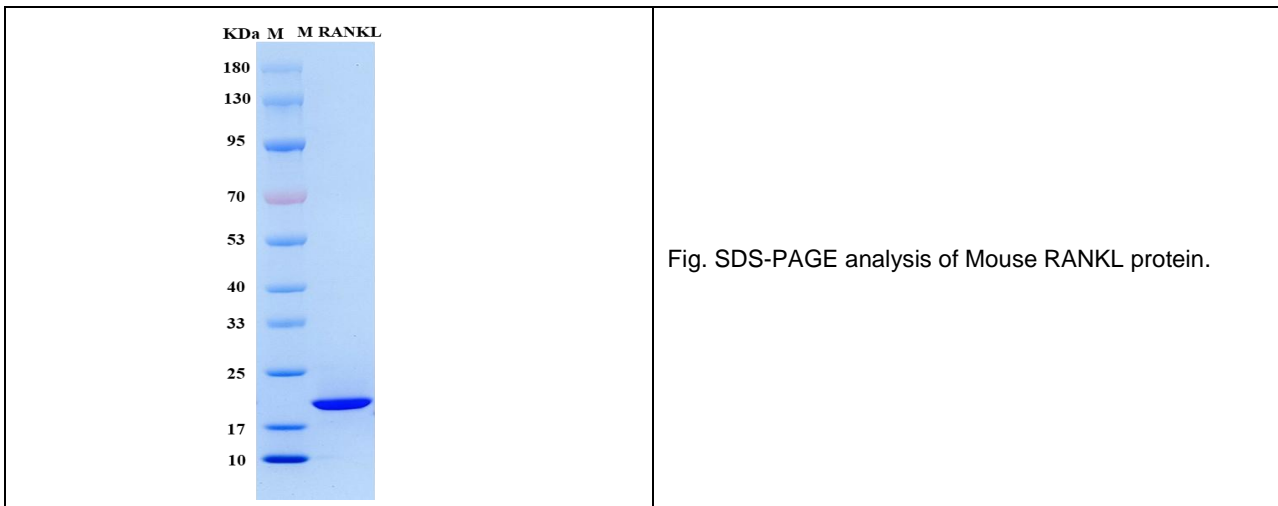
Protein length: The Mouse RANKL consists of 174 amino acids(N-Met) and has a predicted molecular mass of 19 kDa.

Endotoxin: < 1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile 20 mM Tris, 150 mM NaCl pH 8.0.

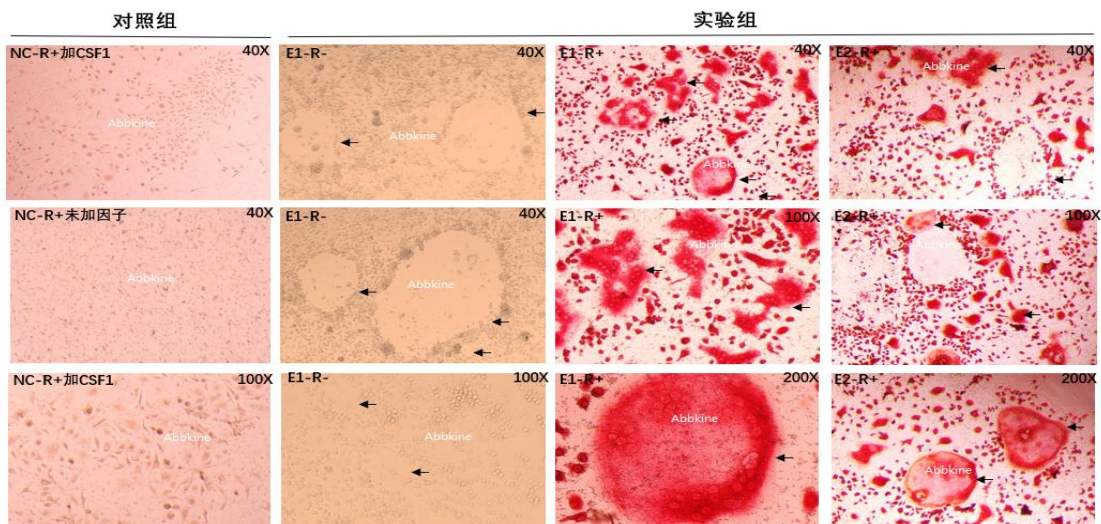
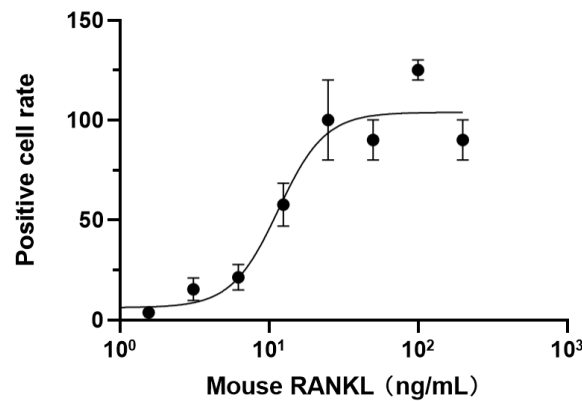
Storage Instructions: Lyophilized Mouse RANKL protein product should be stored desiccated below -18°C for 12 months. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and below -18°C for 3 months. For long term storage it is recommended to add a carrier protein (example 0.1% HSA or BSA), aliquot and store below -18°C, Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to centrifuge at 12,000 rpm for 1 minute. Then reconstitute the lyophilized Mouse RANKL protein with the buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



Biological Activity: Under the presence of 40 ng/ml M-CSF and 50-100 ng/ml RANKL, the induction of primary mouse BMDMs to differentiate into osteoclasts is successful, with a mononuclear positivity rate of 100% and a fusion rate of ≥ 3 nuclei exceeding 60%; Immobilized Mouse RANKL at 1 $\mu\text{g}/\text{mL}$ (100 $\mu\text{l}/\text{well}$) can bind Human OPG (C-Fc), The EC50 of Human OPG is 55 ng/mL. The specific activity of recombinant Mouse RANKL is approximately $>1.82 \times 10^4$ IU/mg.

RANKL诱导小鼠BMDM破骨效应图



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