


## Mouse RANKL protein

Cat #: PRP1114

Size: 5 µg /20 µg/100 µg /1 mg

### Product Information

	<b>Product Name:</b> Mouse RANKL protein		
	<b>Reconstitution:</b> Use the buffer we provided to reconstitute the lyophilized Mouse RANKL protein		
<b>REF</b>	<b>Catalog Number:</b> PRP1114	<b>LOT</b>	<b>Lot Number:</b> Refer to product label
	<b>Purity:</b> ≥ 98 % as determined by SDS-PAGE		
	<b>Storage:</b> Store at -20°C		<b>Preparation method:</b> <i>E.coli</i>
	<b>Shipping:</b> 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. It augments the ability of dendritic cells to stimulate naive T-cell proliferation.

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

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

**Biological Activity:** Immobilized Mouse RANKL at 1 µg/mL (100µl/well) can bind Human OPG (C-Fc), The EC<sub>50</sub> of Human OPG is 55 ng/mL.

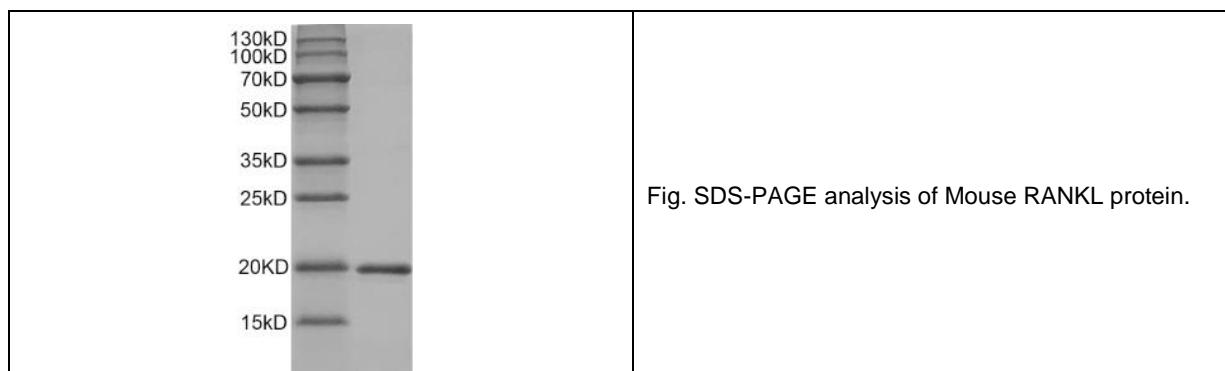
**Endotoxin:** < 1 EU per µg of the protein as determined by the LAL method.

**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 100µg/ml, which can then be further diluted to other aqueous solutions.



**Note:** The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.