


Human RANKL Protein, His tag (Animal-Free)

Cat #: PRP1056

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human RANKL Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1056	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: 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 a single-pass type II membrane protein that belongs to the tumor necrosis factor family. The receptor activator of nuclear factor-kappa B ligand (RANKL), its cognate receptor RANK, and its natural decoy receptor osteoprotegerin have been identified as the final effector molecules of osteoclastic bone resorption. RANK and RANKL are key regulators of bone remodeling and regulate T cell/dendritic cell communications, and lymph node formation. Moreover, RANKL and RANK are expressed in mammary gland epithelial cells and control the development of a lactating mammary gland during pregnancy.

Sequence: Amino acid sequence derived from Human RANKL (Ala142-Asp317)(O14788) was expressed with 6xHis tag at the C-terminus.

Protein length: The recombinant Human RANKL consists of 176 amino acids and predicts a molecular mass of 19.9 kDa.

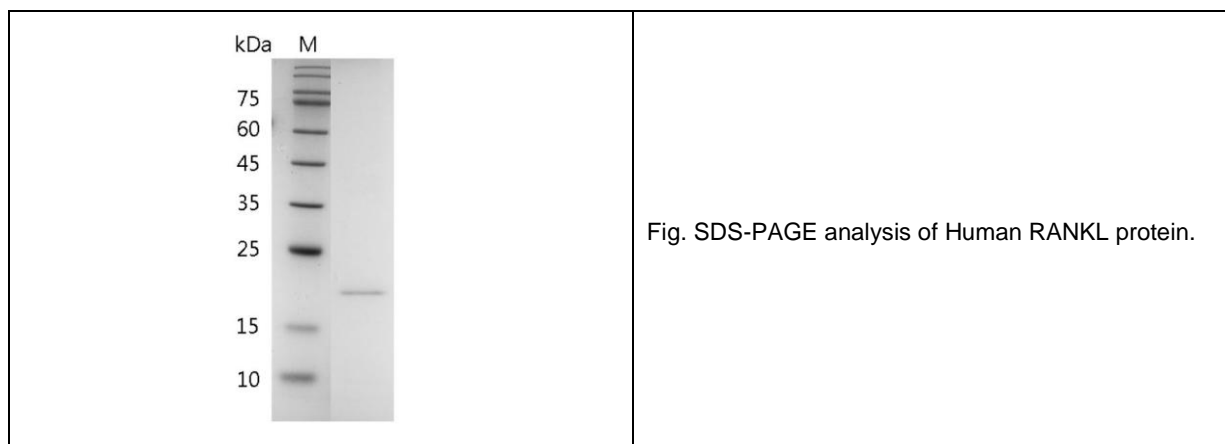
Biological Activity: Measure by its ability to induce osteoclast differentiation in RAW264.7 cells. The ED₅₀ for this effect is <10 ng/mL.

Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: The protein was lyophilized from a 0.2 µm filtered solution containing PBS, pH 8.0.

Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4 °C between 2-7 days and for future use below -18 °C. For long term storage it is recommended to add a carrier protein (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human RANKL Protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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