

**BACKGROUND:**

Receptor Activator of NFκB Ligand (RANKL) is a cell-bound marker (CD254) related to the TNF family of proteins. RANKL plays a critical role in bone metabolism, particularly osteoclast differentiation. In addition, RANKL is expressed by some T cells is thought to promote dendritic cell maturation.

Recombinant soluble human RANKL is a non-glycosylated protein containing 176 amino acids and having a molecular mass of 20 kDa.

**Cat. No.:**  
RP1019AF

**Alternate Names:**  
TNFSF11, TRANCE, OPGL, ODF

**AA Sequence:**

EKAMVDGSW	LDLAKRSKLE	AQPFAHLTIN
ATDIPSGSHK	VSLSSWYHDR	GWAKISNMTF
SNGKLIVNQD	GFYYLYANIC	FRHHETSGDL
ATEYLQLMVY	VTKTSIKIPS	SHTLMKGGST
KYWSGNSEFH	FYSINVGFF	KLRSGEEISI
EVSNPSSLDP	DQDATYFGAF	KVRDID

**TECHNICAL INFO**

**Source:**  
*E. coli*

**Physical Appearance:**  
Sterile Filtered white lyophilized (freeze-dried) powder.

**Formulation:**  
10 mM sodium phosphate, pH 7.5

**Stability:**  
Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**Reconstitution:**  
Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity determined by:**

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

**Endotoxin Level:**  
Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

**Animal Component-Free**  
This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

