

## 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 mouse soluble RANK Ligand is a non-glycosylated protein, containing 174 amino acids and having a molecular weight of 19.9 kDa.

**Cat. No.:**  
RP2004AF

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

**AA Sequence:**

MPAMMEGSWLD	VAQRGKPEAQ	PFAHLTINAA
SIPSGSHKVT	LSSWYHDRGW	AKISNMTLSN
GKLRVNQDGF	YYLYANICFR	HHETSGSVPT
DYLQLMYYVV	KTSIKIPSSH	NLMKGGSTKN
WSGNSEHFHY	SINVGFFKL	RAGEEISIQV
SNPSLLDPDQ	DATYFGAFKV	QDID

## TECHNICAL INFO

**Source:**  
*E. coli*

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

**Formulation:**  
10 mM sodium phosphate and 20 mM sodium chloride, 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.

