

## 32-1720: msRANKL Recombinant Protein

**Alternative Name :** Soluble Receptor Activator of NFkB Ligand, TNFSF11, TRANCE, TNF-related activation-induced cytokine, OPGL, ODF, Osteoclast differentiation factor, Tumor necrosis factor ligand superfamily member 11, Receptor activator of nuclear factor kappa B ligand

### Description

Source : Escherichia Coli. sRANKL Mouse Recombinant produced in E.coli is single, non-glycosylated, polypeptide chain containing 174 amino acids and having a total molecular mass of 19.9kDa. CD254 is purified by proprietary chromatographic techniques. RANKL binds to tnfrsf11b/opg and to tnfrsf11a/rank. Osteoclast differentiation and activation factor. augments the ability of dendritic cells to stimulate naive t-cell proliferation. May be an important regulator of interactions between t-cells and dendritic cells and may play a role in the regulation of the t-cell-dependent immune response. sRANKL may also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The protein (1mg/ml) was lyophilized with 10mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5 & 50mM NaCl.  
**Storage condition :** Lyophilized TNFSF11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution sRANKL 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 (0.1% HSA or BSA). Please prevent freeze-thaw cycles.  
**Amino Acid :** PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA SIPSGSHKVT LSSWYHDRGW AKISNMTLSN  
GKLRVNQDGF YYLYANICFR HHETSGSVPT DYQLMVYVV KTSIKIPSSH NLMKGGSTKN WSGNSEFHFY  
SINVGFFKL RAGEEISIQV SNPSLLDPDQ DATYFGAFKV QDID.

### Application Note

It is recommended to reconstitute the lyophilized sRANKL in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Measured by its ability to induce osteoclast formation on murine RAW264.7 cells using a concentration of 50ng/ml shown in "Corning® Osteo Assay Surface 24 Well Plates with Transwell® Permeable Supports- A Useful Tool for Co-Culture Studies" by Rebecca M. Wood and Mark Rothenber, corresponding to a specific activity of 20,000Units/mg.

