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Recombinant Mouse sRANKL

Description: RANKL and RANK are members of the TNF superfamily of ligands and receptors that play an important role in the regulation of specific immunity and bone turnover. RANK (receptor) was originally identified as a dendritic-cell-membrane protein, which by interacting with RANKL augments the ability of dendritic cells to stimulate naïve T-cell proliferation in a mixed lymphocyte reaction, to promote the survival of RANK + T cells, and to regulate T-cell-dependent immune response. RANKL, which 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. Binding of soluble OPG to sRANKL inhibits osteoclastogenesis by interrupting the signaling between stromal cells and osteoclastic progenitor cells, thereby leading to excess accumulation of bone and cartilage. Recombinant mouse sRANKL is a 19.4 kDa polypeptide comprising the TNF homologous region of RANKL (174 amino acid residues).

Source:	E. coli
Molecular Weight:	19.4 kDa
Purity:	> 98% by SDS-PAGE
Endotoxin level:	< 0.1 ng per µg of sRANKL
Stabilizer:	none
Formulation:	lyophilized

Biological Activity: In the absence of cross-linking the induction of NFκB in RAW264.7 cells was determined. The expected ED50 for this effect is 10.0-25 ng/mL.

Reconstitution: The mouse sRANKL should be reconstituted in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted in water or other buffer solutions or stored at -20°C.

Stability: The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted mouse sRANKL should be stored in working aliquots at -20°C. **Avoid repeated freeze-thaw cycles.**

Usage: Mouse sRANKL offered for research use. Not for drug use. **Not for human use.**

Catalogue number: M10-080

Size: 10 µg

****Please note: always centrifuge product before opening vial.****