

Animal-Free Recombinant Human sRANK Ligand
Catalog # PBG10575**Specification**

Animal-Free Recombinant Human sRANK Ligand - Product Information**Animal-Free Recombinant Human sRANK Ligand - Additional Information****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 human sRANKL is a 20.0 kDa polypeptide comprising the TNF homologous region of RANKL (176 amino acid residues).

Biological Activity

Determined by its ability to induce NFkappaB in RAW264.7 cells in the absence of any cross-linking. The expected **ED₅₀** for this effect is 10.0-25.0 ng/ml.

Authenticity

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin

Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content

Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage

-20°C

Precautions

Animal-Free Recombinant Human sRANK Ligand is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human sRANK Ligand - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Animal-Free Recombinant Human sRANK Ligand - Images