



## RANK Ligand, soluble, GST Tag, human recombinant (rHusRANKL-GST)

**Catalog No:** 97233  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Soluble Receptor Activator of NFκB 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, RANKL, Osteoprotegerin ligand, CD254 antigen, sRANKL, sOdf, hRANKL2

### Background

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. By injecting soluble RANKL, novel osteopenia model mice were established in only 50 hours. Degree of bone loss can be controlled by changing doses of sRANKL. RANKL can be used in establishing osteopenia model for in vivo screening of drugs for osteoporosis, determination of effect and mechanism, evaluation of bone anabolic drugs.

### Description

RANKL human recombinant fused to GST tag produced in *E. coli* is a single, non-glycosylated polypeptide having a molecular mass of 47 kDa. RANKL is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless clear solution.

### Formulation

The soluble RANKL protein solution contains 1 mM EDTA and PBS pH 7.4.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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