



*Recombinant Mouse RANK Ligand*  
(soluble RANK Ligand)

*Catalog Number: 200-04*  
*Accession Number: O35235*

*Specifications and Uses:*

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

**Description:**

Receptor Activator of NF- $\kappa$ B Ligand (RANK Ligand) is a cell-bound marker (CD254) related to the TNF family of proteins. RANK Ligand plays a critical role in bone metabolism, particularly osteoclast differentiation. In addition, RANK Ligand 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, with a molecular weight of 19.9 kDa.

**Source:** *E.coli*

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

**Formulation and Stability:**

Recombinant mouse RANK Ligand is lyophilized from 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5 and 50 mM NaCl. 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 a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically  $\geq$  95%) determined by:**

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is measured by its ability to induce osteoclast formation on mouse RAW264.7 cells using a concentration of 5.0-10.0 ng/mL.

**AA Sequence:**

PAMMEGSWLD VAQRGKPEAQ PFAHLTINAA SIPSGSHKVT LSSWYHDRGW AKISNMTLN GKLRVNQDGF  
YYLYANICFR HHETSGSVPT DYQLMVYVV KTSIKIPSSH NLMKGGSTKN WSGNSEFHFY SINVGGFFKL  
RAGEEISIQV SNPSLLDPDQ DATYFGAFKV QDID

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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