

Product datasheet for **TP728370**

Recombinant RANKL (Receptor activator of nuclear factor kappa-B ligand), Mouse

Product data:

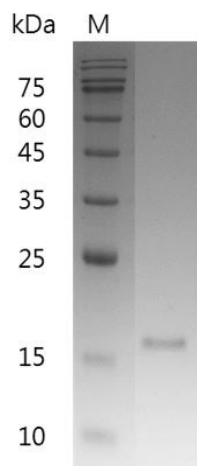
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant RANKL (Receptor activator of nuclear factor kappa-B ligand), Mouse |
| Species: | Mouse |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MPAMMEGSWLDVAQRGKPEAQPFHALTINAASIPSGSHKVTLSWYHDRGWAKISNMTLSNGKLRVN QDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLKGGSTKNWWSGNSEHFHYSINVGGF FKL RAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 20.35 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis). |
| Purity: | >98% as determined by SDS-PAGE. |
| Buffer: | The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0. |
| Bioactivity: | Measure by its ability to induce osteoclast differentiation in RAW264.7 cells. The ED ₅₀ for this effect is <2 ng/mL. |
| Endotoxin: | <0.1 EU per 1 µg of the protein by the LAL method. |
| Reconstitution Method: | Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein. |
| Applications: | Cell culture |
| Storage: | Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles. |
| UniProt ID: | O35235 |
| Synonyms: | soluble Receptor Activator of NF-kB Ligand, TNFSF11, TRANCE (TNF-Related Activation-induced Cytokine), OPGL, ODF (Osteoclast Differentiation Factor), CD254,sRNAK Ligand |



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Summary:

Receptor activator of NF- κ B (RANK) ligand (RANKL) is type II transmembrane protein with an extracellular domain at the carboxy terminus of TNF cytokine superfamily. RANKL is a 19.8 kDa protein containing 317 residues and high expressed in T cells and T cell rich organs, such as thymus and lymph nodes. RANKL-RANK (RANKL receptor) plays an important role in bone metabolism, dysregulation, and immune system. RANKL deficiencies in mice or humans are associated with abnormally increase bone density and blemish in lymphoid organogenesis.

Product images:

SDS- PAGE analysis of recombinant mouse RANKL