

Product datasheet for **TP728280S**

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

Product data:

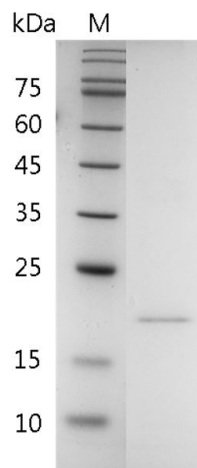
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| Product Type: | Recombinant Proteins |
| Description: | Recombinant RANKL (Receptor activator of nuclear factor kappa-B ligand), Human |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | MEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGSHKVSLSWYHDRGWAKISNMFTSNGKLIVNQ DGFYYLYANICFRHHETSGDLATEYLQLMVVYTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGFFK LRSGEISIEVSNPSLLDPDQDATYFGAFKVRDID with polyhistidine tag at the C-terminus. |
| Tag: | His Tag (C-term) |
| Predicted MW: | The protein has a calculated MW of 20.67 kDa. The protein migrates as 17 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 <10 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: | O14788 |
| Synonyms: | soluble Receptor Activator of NF-κB 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 express 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.

Product images:

SDS- PAGE analysis of recombinant human RANKL