

Mouse recombinant RANKL (Receptor activator of nuclear factor kappa- β ligand) protein, AF

Catalog Number: PROTO35235-4

Overview

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| Product Name | Mouse recombinant RANKL (Receptor activator of nuclear factor kappa- β ligand) protein, AF |
| Description | Receptor activator of NF-kappaB (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. |
| Size | 5ug,20ug,100ug |
| Tag | His Tag (C-term) |
| Form | Lyophilized |
| Source | Escherichia coli |
| Formulation | The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us. |

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.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 20.35 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce osteoclast differentiation in RAW264.7 cells. The ED₅₀ for this effect is <2 ng/mL.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MPAMMEGSWLDVAQRGKPEAQPFALHTINAASIPSGSHKVTLSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLM
VYVVKTSIKIPSSHNLKGGSTKNWSGNSEFHFYSINVGFFKLRAGEEISIQVSNPSSLDPDQDATYFGAFKVQDID with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 ug/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.

Usage

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