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重组小鼠核因子κ B受体活化因子配体 /Recombinant RANKL，Mouse，Animal-Free

CM045-5MP

CM045-20MP

CM045-100MP

CM045-500MP

CM045-1000MP

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Specialize In Cytokines

CONTENT

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Product Datasheet

重组小鼠核因子κB受体活化因子配体 /Recombinant RANKL，Mouse，Animal-Free

产品编号	CM045-5MP	CM045-20MP	CM045-100MP	CM045-500MP	CM045-1000MP
规格	5 μg	20 μg	100 μg	500 μg	1 mg

产品简介

背景描述	Receptor activator of NF-κB (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.
别称	receptor activator of nuclear factor kappa-B ligand, soluble Receptor Activator of NF-kB Ligand, TNFSF11, TRANCE (TNF-Related Activation-induced Cytokine), OPGL, ODF (Osteoclast Differentiation Factor), CD254,sRNAK Ligand
蛋白编码	O35235
分子量	The protein has a calculated MW of 20.35 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).
表达系统	Escherichia coli
纯度	>98% as determined by SDS-PAGE.
生物活性	Measure by its ability to induce osteoclast differentiation in RAW264.7 cells. The ED_{50} for this effect is <2 ng/mL.
内毒素检测	<0.1 EU per 1 μg of the protein by the LAL method.
蛋白序列	MPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID with polyhistidine tag at the C-terminus.
产品形式	The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.
产品应用	Cell Culture

产品使用

1. Before opening, centrifuge at 3000 rpm for 5 mins.

2.Initial Reconstitution

· Reconstitute the Lyophilized Protein in sterile H_2O to a concentration of 100-200 μg/mL.

· Then, incubate it at room temperature for at least 20 mins to ensure sufficient dissolution.

Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

· Store at 2°C to 8°C for up to 1 week.

3.Extended Storage

· After the initial reconstitution, further dilute the reconstituted protein in a buffer containing a carrier protein or stabilizer (e.g., 0.1% BSA, 10% FBS, 5% HSA, or 5% trehalose solution). The final concentration is not less than 10 μg/ml.

· Prepare aliquots (≥20 μl).

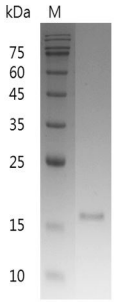
· Store at -20°C or -80°C for 3 to 6 months.

Avoid repeated freeze-thaw cycles.

产品储存/运输

储存	**Lyophilized Protein:** Store at -20°C for 1 year. **Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week. **Extended Storage:** Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.
运输	Blue Ice

实验数据展示



SDS-PAGE analysis of recombinant mou

文献引用

- Spleen Tyrosine Kinase Exacerbates Anti-Citrullinated Protein/Peptide Antibody-Mediated Osteoclast Bone Resorption via Promotion of Vav3 Phosphorylation. Cell Biol Int. 2025 Aug 11. (IF 3.1)(Human/Mouse M-CSF, RANKL)

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