

# CHAMOT

重组人核因子κ B受体活化因子配体 /Recombinant  
RANKL, Human, Animal-Free

CM059-5HP



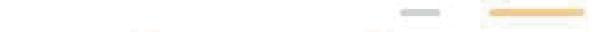
CM059-20HP



CM059-100HP



CM059-500HP



CM059-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

# CONTENTS

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

5 文献引用

## 重组人核因子κ B受体活化因子配体 /Recombinant RANKL, Human, Animal-Free

产品编号	CM059-5HP	CM059-20HP	CM059-100HP	CM059-500HP	CM059-1000HP
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 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.
别称	receptor activator of nuclear factor kappa-B ligand, soluble Receptor Activator of NF-κB Ligand, TNFSF11, TRANCE (TNF-Related Activation-induced Cytokine), OPGL, ODF (Osteoclast Differentiation Factor), CD254, sRANKL Ligand
蛋白编码	O14788
分子量	The protein has a calculated MW of 20.67 kDa. The protein migrates as 17 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 <sub>50</sub> for this effect is <10 ng/mL.
内毒素检测	<0.1 EU per 1 µg of the protein by the LAL method.
蛋白序列	MEKAMVDGSWLDLAKRSKLEAQPF AHLTINATDIPSGSHKVSLSSWYHDRGWAKISNMTFS NGKLIVNQDGFYLYANICFRHHETSGDLATEYLQLMVYVTKTSIKIPSSHTLMKGGSTKYWSG NSEFHFY SINVGGFFKLRSGEEISIEVSNPSLLDPDQDATYFGAFKVRDID 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<sub>2</sub>O 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 ( $\geq 20 \mu\text{l}$ ).
- Store at -20°C or -80°C for 3 to 6 months.

Avoid repeated freeze-thaw cycles.

## 产品储存/运输

**Lyophilized Protein:** Store at -20°C for 1 year.

### 储存

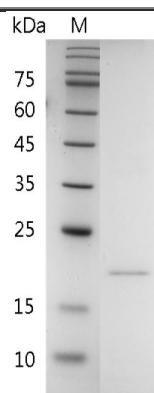
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



## 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)

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. [www.chamot-bio.com](http://www.chamot-bio.com)

Tel: 021-51880030 Mail: [info@chamot-bio.com](mailto:info@chamot-bio.com) QQ: 864920491