

CHAMOT

**重组人干细胞因子 /Recombinant SCF, Human,
Animal-Free**

CM171-5HP

CM171-20HP

CM171-100HP

CM171-500HP

CM171-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人干细胞因子 /Recombinant SCF, Human, Animal-Free

产品编号	CM171-5HP	CM171-20HP	CM171-100HP	CM171-500HP	CM171-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述 Stem Cell Factor (SCF) is a 166-amino-acid protein with a monomeric molecular weight of approximately 18.5 kDa. SCF is the ligand for the tyrosine kinase receptor c-kit, which regulates other Growth Factors, such as granulocyte colony-stimulating factor (G-CSF), granulocyte macrophage-colony-stimulating factor (GM-CSF), and interleukin-3 to stimulate proliferation, and differentiation of hematopoietic stem cells. SCF can be produced by a variety of cells, including fibroblasts, smooth muscle, endothelial cells, mast cells and bone marrow macrophages endothelial cells.

别称 DCUA, DFNA69, FPH2, FPHH, KL-1, Kitl, MGF, SF, SHEP7, SLF, KIT ligand

蛋白编码 P21583

分子量 The protein has a calculated MW of 19.4 kDa. The protein migrates as 21 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 TF-1 cells proliferation. The ED₅₀ for this effect is <5 ng/mL. The specific activity of recombinant human SCF is > 5 x 10⁵ IU/mg.

内毒素检测 <0.1 EU per 1 µg of the protein by the LAL method.

蛋白序列 MEGICRNRVTNNVKDVTCLVANLPKDYMITLKYVPGMDVLP SHCWISEM VVQLSDSLTDLLD KFSNISEGLSNYSIIDKLVNIVDDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDF VVASETSDCVVSSTLSPEKDSRVSVTKPFMLPPVA 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 7.4. 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 H₂O 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

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

储存

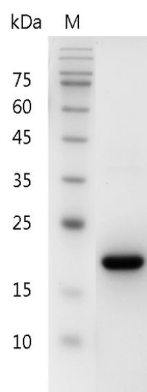
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

Extended Storage: Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.

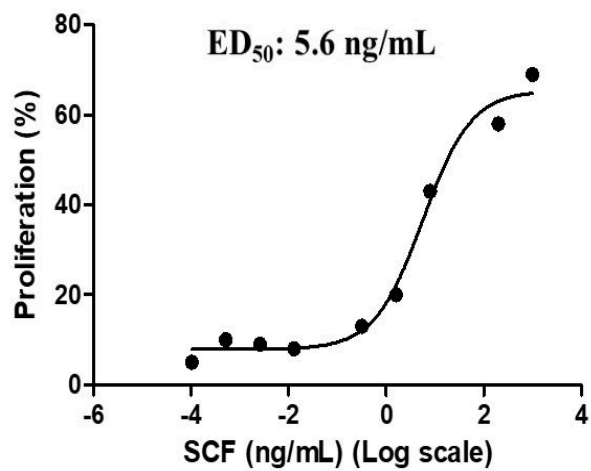
运输

Blue Ice

实验数据展示



SDS-PAGE analysis of recombinant human SCF



Human SCF, His Tag, E. coli induced TF-1 cell proliferation.

For Research Use or Further Manufacturing Only

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