

CHAMOT

Recombinant SCF, Human, GMP

CM171-100HPG

CM171-1000HPG



CHAMOT

乔默®生物

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Recombinant SCF, Human, GMP

Catalog#	CM171-100HPG	CM171-1000HPG
Size	100 ug	1 mg

Product Specifications

Background

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.

Synonyms

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

Uniprot ID

P21583

Molecular Weight

The protein has a calculated MW of 19.4 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).

Expression System

Escherichia coli

Purity

>98% as determined by SDS-PAGE analysis.

Activity

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.

Endotoxin Level

<0.05 EU per 1 µg of the protein by the LAL method.

Protein Sequence

MEGICRNRVTNNVKDVTCLVANLPKDYMITLKYVPGMDVLP SHCWISEM VVQLSDSLTDL
LDKFSNISEGLSNYSIIDKLVNIVDDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDA
FKDFVVASETSDCVVSTLSPEKDSRVSVTKPFMLPPVA with polyhistidine tag at the C-terminus

Form

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Application

Cell Culture

Product Note

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 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Storage/Shipping

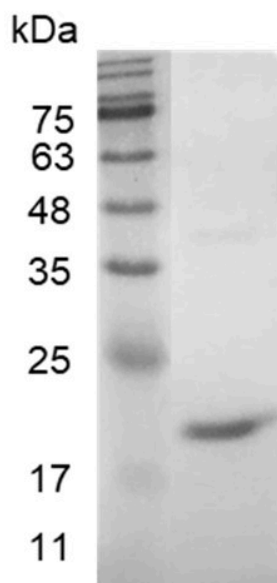
Stability & Storage

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.

Shipping

Blue Ice

Scientific Data



SDS- PAGE analysis of GMP human SCF

For Research Use or Further Manufacturing Only

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