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Human recombinant SCF protein, AF

Catalog Number: PROTP21583-6

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Overview

Product Name	Human recombinant SCF protein, AF
Description	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 Factorss, 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.
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 7.4. 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 19.4 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measure by its ability to induce TF-1 cells proliferation. The ED_{50} for this effect is <5 ng/mL. The specific activity of recombinant human SCF is > 5 x 10^5 IU/mg.

Endotoxin

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

Amino Acid Sequence

MEGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLPSHCWISEMVVQLSDSLTDLLDKFSNISEGLSNYSIIDKLVNIVDDLVECVKENSSKDLK KSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSDCVVSSTLSPEKDSRVSVTKPFMLPPVA 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 H_2O 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.

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Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Human recombinant SCF protein, AF

For Research Use Only. Not for use in diagnostic procedures.