

Product datasheet for **TP728282M**

Recombinant SCF, Human

Product data:

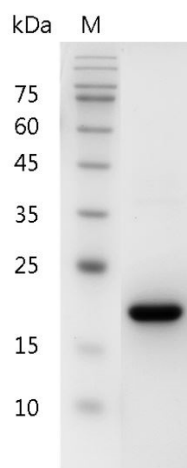
Product Type:	Recombinant Proteins
Description:	Recombinant SCF, Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MEGICRNRVTNNVKDVTKLVANLPKDYMITLKVYVPGMDVLP SHCWISEM VVQLSDSLTDL LDKFSNISEG LSNYSIIDKLVNIVDDLVECVKENS SKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVASETSDCVSSTLS PEKDSRVSVTKPFMLPPVA with polyhistidine tag at the C-terminus
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 19.4 kDa. The protein migrates as 21 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>98% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4.
Bioactivity:	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 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/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.
Applications:	Cell culture
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.
UniProt ID:	P21583
Synonyms:	DCUA, DFNA69, FPH2, FPHH, KL-1, Kitl, MGF, SF, SHEP7, SLF, KIT ligand



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Summary:

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.

Product images:

SDS- PAGE analysis of recombinant human SCF