

Stem Cell Factor (SCF) Active Protein | SCF active protein

Active Stem Cell Factor (SCF)

CATALOG # AAA161692	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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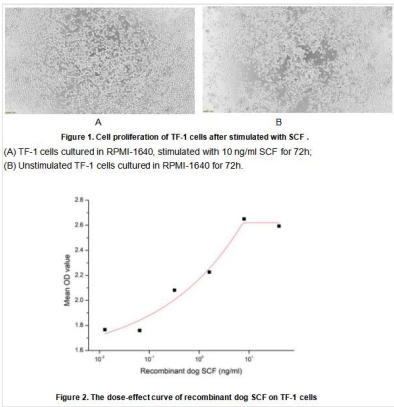
PRODUCT SYNONYMS

Stem Cell Factor (SCF); Active Stem Cell Factor (SCF); Stem Cell Factor; SCF active protein (eukaryotic; 293F cell); Dog; KITLG; MGF; SF; KL1; Kitl; FPH2; Kit-Ligand; Steel Factor; Mast Cell Growth Factor; Steel factor; Familial Progressive Hyperpigmentation 24; SCF active protein

PRODUCT SPECIFICATIONS

Host	293F cell
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Lys26~Val2 74
Applicable Applications for SCF active protein	Activity Assay, Cell Culture
Species	Dog
Expression System	Eukaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5
Research Area	Cytokine, Hematology
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

IMAGES

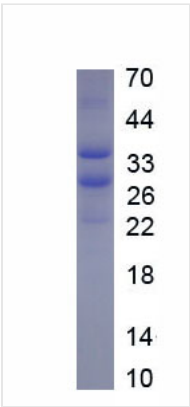


Bioactivity

Stem cell factor (SCF), also known as mast cell growth factor (MGF), and steel factor (SLF), plays an important role in hematopoiesis, spermatogenesis and melanogenesis. SCF has been shown to stimulate the proliferation of TF-1 cells. To test this effect, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 2 x 10⁴ cells/well and incubated for 72h in the presence or absence of various concentrations of SCF at 37 degree C. The growth of cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8(CCK-8). Briefly, 10 ul of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450 nm using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Cell proliferation of TF-1 cells after incubation with SCF for 72h observed by inverted microscope was shown in Figure 1. The dose-effect curve of SCF was shown in Figure 2. It was obvious that it significantly promoted cell proliferation of TF-1 cells. The ED50 for this effect is typically 0.54 ng/ml.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for SCF active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	60678250
NCBI GeneID	403507
NCBI Accession #	NP_001012753.1
NCBI GenBank Nucleotide #	NM_001012735.2
UniProt Accession #	Q06220; Q8SPM6
Molecular Weight	30,870 Da
NCBI Official Full Name	kit ligand
NCBI Official Symbol	KITLG
NCBI Official Synonym Symbols	CSF; MGF; 710-712
NCBI Protein Information	kit ligand
UniProt Protein Name	Kit ligand
UniProt Gene Name	KITLG
UniProt Synonym Gene Names	MGF; MGF; SCF; sKITLG

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

