

Stem Cell Factor Active Protein | Kitlg active protein

Rat Stem Cell Factor Recombinant

CATALOG #	HOST
AAA76393	E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)

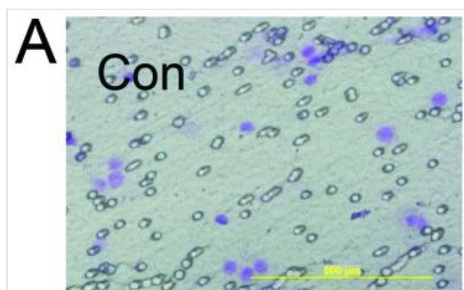
PRODUCT SYNONYMS

Stem Cell Factor; Rat Stem Cell Factor Recombinant; Kitlg active protein

PRODUCT SPECIFICATIONS

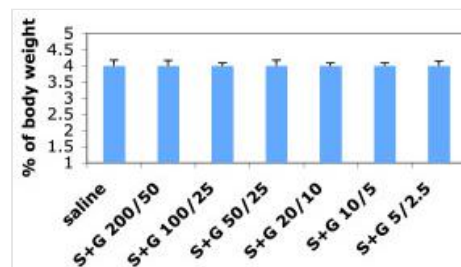
Host	E coli (Note: Host protein expression may be lot-specific and can be subject to change during production, including bulk orders.)
Purity/Purification	>95%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Rat Stemcell factor was lyophilized from a 0.2 um filteredNaHCO3 solution.
Sequence	MKKTQTWIIT CIYLQLLLFN PLVKTQEICR NPVTDNVKDI TKLVANLPND YMITLNYVAG MDVLPSCWL RDMVTHLSVS LTTLLDKFSN ISEGLSNYSI IDKLGKIVDD LVACMEENAP KNVKESLKKP ETRNFTPEEF FSIFNRSIDA FKDFMVASDT SDCVLSSTLG PEKDSRVSVT KPFMLPPVAA SSLRNDSSSS NRKAAKSPED PGLQWTAMAL PALISLVIGF AFGALYWKKK QSSLTRAVERN IQINEEDNEI SMLQQKEREV QEV
Source	Optimized DNA sequence encoding Rat SCF mature chain was expressed in Escherichia Coli.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Biological Activity	The ED(50) was determined by the dose-dependent stimulation of theproliferation of human TF-1 cells is <=.0 ng/ml, corresponding to a specific activity of >= x units/mg
Molecular Function	Growth-factor
Biological Process	Cell-adhesion
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Preparation and Storage	The lyophilized protein is stable for at least years from date of receipt at-20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree -8 degree C for one month, or at-20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

IMAGES



Application Data

Effect of stem cell factor (SCF) on cardiac stem cell (CSC) migration in vitro. Representative images of migrated CSCs treated with varying concentrations of SCF by Transwell-based migration assays.



Application Data

Pathological examination of livers and kidneys after SCF+G-CSF treatment during chronic stroke in aged mice. S+G 200/50: SCF (200 ?g/kg) in combination with G-CSF (50 ?g/kg).

ADDITIONAL INFORMATION

Product Categories/Family for Kitlg active protein	PDGF family; PDGF family; Recombinant Rat Cytokines
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NCBI AND UNIPROT INFORMATION

NCBI GI #	33667068
NCBI GeneID	60427
NCBI Accession #	NP_068615.1
NCBI GenBank Nucleotide #	NM_021843.4
UniProt Accession #	P21581; Q9QWZ4; Q9Z2E7
Molecular Weight	27,681 Da
NCBI Official Full Name	kit ligand isoform 1
NCBI Official Synonym Full Names	KIT ligand
NCBI Official Symbol	Kitlg
NCBI Official Synonym Symbols	Mgf; SCF; Kitl
NCBI Protein Information	kit ligand; C-kit ligand; hematopoietic growth factor KL; mast cell growth factor; steel factor/kit ligand; stem cell factor KL-1
UniProt Protein Name	Kit ligand
UniProt Gene Name	Kitlg
UniProt Synonym Gene Names	Kitl; Mgf; MGF; SCF; SKITLG
UniProt Entry Name	SCF_RAT

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.

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Online datasheet: <https://www.aaabiotech.com/e-coli-active-protein/stem-cell-factor/76393>