

Stem Cell Factor Active Protein | rSCF active protein

Recombinant Rat Stem Cell Factor

CATALOG #
AAA38157

HOST
E Coli

PRODUCT SYNONYMS

Stem Cell Factor; Recombinant Rat Stem Cell Factor; SCF Rat; Stem Cell Factor Rat Recombinant; Kit ligand Precursor; C-kit ligand; SCF; Mast cell growth factor; MGF; SF; KL-1; Kitl; DKFZp686F2250; Hematopoietic growth factor KL; rSCF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Lyophilized from a concentrated (1mg/ml) solution in water containing 0.02% NaHCO ₃ . Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	MQEICRNPTV DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMV THLSVSLTTL LDKFSNISEG LSNYSIIDKL GKIVDDLAC MEENAPKNVK ESLKKPETRN FTPEEFSIF NRSIDAFKDF MVASDTSDCV LSSTLGPEKD SRVSVTKPFM LPPVA
Solubility	It is recommended to reconstitute the lyophilized SCF in sterile 18M Omega -cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED ₅₀ is determined by the dose-dependant stimulation of the proliferation of human TF-1 cells which is < 10 ng/ml, corresponding to a specific activity of 100,000units/mg.
Preparation and Storage	Lyophilized rat SCF although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution SCF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for rSCF active protein	Description: Stem cell factor Rat Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 164 amino acids (26-189) and having a molecular mass of 18.4 kDa. The Rat SCF is purified by proprietary chromatographic techniques. Introduction: Stem cell factor / KIT ligand (SCF) is a cytokine which binds CD117 (c-Kit). SCF is also known as "steel factor" or "c-kit ligand". SCF exists in two forms, cell surface bound SCF and soluble (or free) SCF. Soluble SCF is produced by the cleavage of surface bound SCF by metalloproteases. SCF is a growth factor important for the survival, proliferation, and differentiation of hematopoietic stem cells and other hematopoietic progenitor cells. One of its roles is to change the BFU-E (burst-forming unit-erythroid) cells, which are the earliest erythrocyte precursors in the erythrocytic series, into the CFU-E (colony-forming unit-erythroid).
Product Categories/Family for rSCF active protein	Cytokines and Growth Factors; Growth Factors; Stem Cell Factor

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-rscf-active-protein/stem-cell-factor/38157>