



Recombinant Rat SCF

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	R20-040S
Size:	2 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	60427
Synonyms:	Kitlg; Mgf; SCF; Kitl

Stem Cell Factor (SCF) is a hematopoietic growth factor that exerts its activity by signaling through the c-Kit receptor. SCF and c-Kit are essential for the survival, proliferation and differentiation of hematopoietic cells committed to the melanocyte and germ cell lineages. Human SCF manifests low activity on murine cells, while murine and rat SCF are fully active on human cells. Recombinant rat SCF is an 18.4 kDa polypeptide containing 165 amino acid residues, which corresponds to the sequence of the secreted soluble form of SCF.

Sequence

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MQEICRNPVT DNVKDIITKLV ANLPNDYMIT LNYVAGMDVL  
PSHCWLRDMV THLSVSLTTL LDKFSNISEG LSNYSIIDKL  
GKIVDDLVAE MEENAPKNVK ESLKKPETRN FTPEEFSIF  
NRSIDAFKDF MVASDTSDCV LSSTLGPEKD SRVSVTKPFM LPPVA
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Database References

Protein RefSeq:	NP_068615.1
Uniprot ID:	P21581
mRNA RefSeq:	NM_021843

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	165
MW:	18.4 kDa

Biological Activity: Determined by the dose-dependent stimulation of the proliferation of the human TF-1 cells. The expected ED50 for this effect is 20 - 40 ng/ml.



AVOID REPEATED FREEZE AND THAW CYCLES!