

Active Recombinant Mouse SCF Protein

Cat. No. SCF-65M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse SCF was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Species	Mouse
Source	E.coli
Description	Stem Cell Factor (SCF) is a glycoprotein that plays a key role in hematopoiesis acting both as a positive and negative regulator, often in synergy with other cytokines. SCF binds to and activates the SCF receptor (SCFR), a receptor tyrosine kinase. SCF stimulates the proliferation of mast cells and is able to augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. It also mediates cell-cell adhesion and acts synergistically with other cytokine.
Form	Liquid. In Phosphate buffer saline (pH 7.4) containing 10% glycerol.
Bio-activity	Measured in a cell proliferation assay using MC/9 mouse mast cells. The ED50 for this effect is less or equal to 20 ng/ml.
Molecular Mass	18 kDa (165 aa), confirmed by MALDI-TOF
AA Sequence	MKEICGNPVT DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMV IQLSLSLTTL LDKFSNISEG LSNYSIIDKL GKIVDDL VLC MEENAPKNIK ESPKRPETRS FTPEEFFSIF NRSIDAFKDF MVASDTSDCV LSSTLGPEKD

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	SRVSVTKPFM LPPVA
Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>95% by SDS - PAGE
Storage	Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20Centigrade or -70Centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	Kitl kit ligand [Mus musculus]
Official Symbol	Kitl
Synonyms	Kitl; Clo; Con; SF; Sl; SLF; Steel; SCF
Gene ID	17311
mRNA Refseq	NM_013598
Protein Refseq	NP_038626
MIM	
UniProt ID	P20826
Chromosome Location	10 D1; 10 51.4 cM

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Function

cytokine activity; growth factor activity; stem cell factor receptor binding

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