

SCF (Stem Cell Factor) Human, Recombinant, E.coli

Cat.NO.: TP03856

3th Edition

Synonyms:Stem cell factor, KITLG, Kitl, KL-1, MGF, SF, SHEP7

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 cellcell adhesion and acts synergistically with other cytokine. Recombinant human SCF was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

Form:Liquid. In Phosphate buffer saline (pH 7.4)

Molecular Weight:18.5 kDa (165 aa), confirmed by MALDI-TOF

Sequences:

MEGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLP SHCWISEM VVQLSDSLTDLLDKFSNISEGLSNYSIID
KLVNIVDDLVECVKENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSDCVVSSTLSPEKDSRVSVT
KPFMLPPVA

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.