

SCF, 26-189 aa, Mouse, E.coli (Bioactivity Validated)

Cat.NO.: TP03857

3th Edition

Synonyms: Stem cell factor, Kitl, Clo, Con, contrasted, Gb, Kitlg, Mgf, SF, Sl, SLF, Steel

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. 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.

Form: Liquid. In Phosphate buffer saline (pH 7.4) containing 10% glycerol.

Molecular Weight: 18 kDa (165 aa), confirmed by MALDI-TOF

Sequences:

MKEICGNPVTDNVKDITKLVANLPNDYMITLNYVAGMDVLP SHCWLRDMVIQLSLSLTTLLDKFSNISEGLSNYSIIDK
LGKIVDDLVLCEENAPKNIKESPKRPETRSFTPEEFFSIFNRSIDAFKDFMVASDTSDCVLSSTLGPEKDSRVSVTK
PFMLPPVA

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.