

Overview

Synonyms	C-Kit Ligand, Mast Cell Growth Factor (MGF), Steel Factor
Description	Stem Cell Factor (SCF) is a hematopoietic growth factor that exerts its activity during the early stages of hematopoiesis. SCF stimulates the proliferation of myeloid, erythroid, and lymphoid progenitors in bone marrow cultures and has been shown to act synergistically with colony stimulating factors. Recombinant human Stem Cell Factor (rhSCF) produced in <i>Pichia pastoris</i> is a glycosylated polypeptide chain of 165 amino acids. A fully biologically active molecule, rhSCF has a molecular mass of ~20kDa analyzed by reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques.
Species	Human
Source	<i>P. pastoris</i>
Biological Activity	The ED50, as determined by the dose-dependent stimulation of human TF-1 cells, is < 2 ng/ml, corresponding to a specific activity of 5×10 ⁵ IU/mg.
Sequence	MEGICRNRVT NNVKDVTKLV ANLPKDYMIT LKYVPGMDVL PSHCWISEMV VQLSDSLTDL LDKFSNISEG LSNYSIIDKL VNIVDDLVEC VKENSSKDLK KSFKSPEPRL FTPEEFFRIF NRSIDAFKDF VVASETSDCV VSSTLSPEKD SRVSVTKPFM LPPVA

Properties

Measured Molecular Weight	~20 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE analysis.
Formulation	Lyophilized after extensive dialysis against 10 mM acetic acid.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	<1.0 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Stem Cell Factor (rhSCF) remains stable up to 12 months at lower than -70°C from date of receipt. Upon reconstitution, rhSCF should be stable up to 4 weeks at 4°C or up to 6 months at -20°C.

India Contact:

Life Technologies (India) Pvt. Ltd.

306, Aggarwal City Mall, Opposite M2K Pitampura,
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: customerservice@lifetechindia.com

Web: www.lifetechindia.com