

Overview

Synonyms	Stem Cell Factor, c-Kit Ligand, Mast Cell Growth Factor (MGF), Steel Factor Stem Cell Factor (SCF) is a hematopoietic growth factor that binds to the c-Kit receptor. SCF 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.
Description	Recombinant mouse Stem Cell Factor (rmSCF) produced in <i>P. pastoris</i> is a single glycosylated polypeptide chain containing 165 amino acids. A fully biologically active molecule, rmSCF has a molecular mass of 18.4kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
Species	Mouse
Source	<i>P. pastoris</i>
Biological Activity	ED ₅₀ < 10.0 ng/ml, measured by a cell proliferation assay using human TF-1 cells, corresponding to a specific activity of > 1.0× 10 ⁵ units/mg.
Sequence	MKEICGNPVT DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMV IQLSLSLTTL LDKFSNISEG LSNYSIIDKL GKIVDDLVLV MEENAPKNIK ESPKRPETRS FTPEEFSIF NRSIDAFKDF MVASDTSDCV LSSTLGPEKD SRVSVTKPFM LPPVA

Properties

Measured Molecular Weight	18.4kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Lyophilized after extensive dialysis against 50mM Tris, pH8.0.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant mouse Stem Cell Factor (rmSCF) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rmSCF should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
Note	For research use only

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