

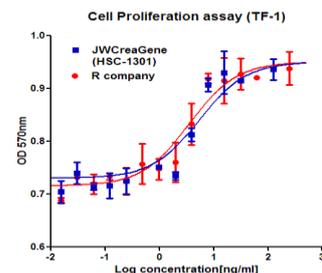
DATA SHEET

Product Information

Product Name	: Recombinant Human Stem Cell Factor (rhSCF)
Synonyms	: Kit ligand,
Description	: Recombinant human Stem Cell Factor produced in E. coli is an 18.4 kDa protein containing 165 amino acids. SCF is a hematopoietic growth factor that exerts its activity by signaling through the c-Kit receptor. It is particularly important in the mast cell and erythroid lineages, but also acts on multipotential stem and progenitor cells, megakaryocytes, and a subset of lymphoid progenitors. SCF exists in soluble or transmembrane forms which appear to differ in function.
NCBI Accession No.	: NM_003994.5
Amino acid sequence	: MEGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLP SHCWISEMVV QLSDSLTDLLDKFSNISEGLSNYSIIDKLVNI VDDLVECVKENS SKDLKKS FKSPEPRLETP EEFRI FNRSIDAFKDFVVA SETSDCVV SSTLSPEKDSRV SVTKPFMLPPVA
Molecular Mass	: 18.55 kDa (165 aa)
Protein Tags	: No tagging
Source	: <i>E. coli</i> .
Cat. No.	: JW-H003-0010, JW-H003-0025, JW-H003-0050, JW-H003-0100, JW-H003-0250, JW-H003-0500, JW-H003-1000
Storage	: Should be at ≤ -70 °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
Cross Reactivity	: Monkey

Quality Control

Test items	Specifications
Appearance	: Clear, colorless liquid
Purity	: Greater than 98 % by RP-HPLC and SDS-PAGE
Specificity	: Using Western blot, detection
Concentration	: 0.1 mg/ml, Bradford method
Biological Activity	: Determined by measuring the proliferation of murine TF-1 indicator cells. The ED ₅₀ is ≤ 5 ng/ml, corresponding to a specific activity of 0.2×10^5 U/mg
Endotoxin	: Less than 0.2 EU/ μ g as determined by the LAL method
Formulation	: 40mM Tris-acetate, 5% glycerol (pH 8.0) without preservative or carrier proteins.
Stability	: Stable for up to 12 months at -70 °C. Stable for a month at 4 °C.
Sterility	: Sterilized through a 0.2μ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



Manufacturer	: JW CreaGene Inc. FL2, Jungang induspia V, 138-6, Sangdaewon-dong, Jungwon-gu, Seongnam-si, Gyeonggi-do, South Korea (462-120) Tel: 82-31-737-3310, Fax: 82-31-737-3301
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