

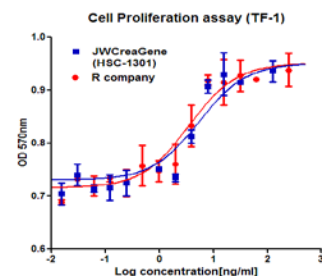
## DATA SHEET

### Product Information

<b>Product Name</b>	: <b>Recombinant Human Stem Cell Factor (rhSCF)</b>
<b>Synonyms</b>	: Kit ligand,
<b>Description</b>	: 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.
<b>NCBI Accession No.</b>	: NM_003994.5
<b>Amino acid sequence</b>	: MEGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLP SHCWISEMVV QLSDSLTDL LDKFSNISEGLSNYSIIDKLVNIVDDLVECVKENS SKDLKKS FKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSDCVVSS TLSPEKDSRV SVTKPFMLPPVA
<b>Molecular Mass</b>	: 18.55 kDa (165 aa)
<b>Protein Tags</b>	: No tagging
<b>Source</b>	: <i>E. coli</i> .
<b>Cat. No.</b>	: HSC-10, HSC-25, HSC-50, HSC-100, HSC-250, HSC-500
<b>Storage</b>	: Should be at $\leq -70$ °C as undiluted aliquots of handy size. Avoid repeated freezing and thawing.
<b>Cross Reactivity</b>	: Monkey

### Quality Control

Test items	Specifications
<b>Appearance</b>	: Clear, colorless liquid
<b>Purity</b>	: Greater than 97 % by RP-HPLC and SDS-PAGE
<b>Specificity</b>	: Using Western blot, detection
<b>Concentration</b>	: 0.1 mg/ml, Bradford method Determined by measuring the proliferation of murine TF-1 indicator cells.
<b>Biological Activity</b>	: The ED <sub>50</sub> is 1~5 ng/ml, corresponding to a specific activity of $0.2 \times 10^5 \sim 1.0 \times 10^6$ U/mg
<b>Endotoxin</b>	: Less than 1.0 EU/ $\mu$ g as determined by the LAL method
<b>Formulation</b>	: Sodium phosphate Buffer (pH 6.5~7.5) without preservative or carrier proteins.
<b>Stability</b>	: Stable for up to 12 months at $-70$ °C. Stable for a month at $4$ °C.
<b>Sterility</b>	: Sterilized through a $0.2 \mu$ m membrane filter and packaged aseptically. Culture for 2 weeks, no growth



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