

## Active Recombinant Human KITLG

**Cat. No.** KITLG-9128H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human Stem Cell Factor (rhSCF) produced in <i>Pichia pastoris</i> is a glycosylated polypeptide chain of 165 amino acids.
<b>Species</b>	Human
<b>Source</b>	<i>P.pastoris</i>
<b>Description</b>	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.
<b>Form</b>	Lyophilized after extensive dialysis against 10 mM acetic acid.
<b>Bio-activity</b>	ED <sub>50</sub> < 2ng l,="" measured="" by="" the="" dose-dependent="" stimulation="" of="" human="" tf-1="" cells,="" corresponding="" to="" a="" specific="" activity="" of="" >5 x 105 units/mg.
<b>Molecular Mass</b>	~20 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	Glu26-Ala189, expressed with an N-terminal Met.
<b>Endotoxin</b>	< 1.0 eu/μg,="" determined="" by="" lal="" >
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses.

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**Storage** Lyophilized recombinant protein remains stable up to 12 months at -80°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.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

## GENE INFORMATION

**Gene Name** [KITLG KIT ligand \[ Homo sapiens \]](#)

**Official Symbol** KITLG

**Synonyms** KITLG; KIT ligand; MGF; kit ligand; familial progressive hyperpigmentation 2; FPH2; Kitl; KL 1; mast cell growth factor; SCF; SF; steel factor; stem cell factor; c-Kit ligand; KL-1; SHEP7; kit-ligand; DKFZp686F2250;

**Gene ID** [4254](#)

**mRNA Refseq** [NM\\_000899](#)

**Protein Refseq** [NP\\_000890](#)

**MIM** [184745](#)

**UniProt ID** [P21583](#)

**Chromosome Location** 12q22

**Pathway** C-MYB transcription factor network, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor

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interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Kit Receptor Signaling Pathway, organism-specific biosystem; Melanogenesis, organism-specific biosystem;

**Function**

cytokine activity; growth factor activity; protein binding; stem cell factor receptor binding;

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