

Active Recombinant Human KITLG

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

SPECIFICATION

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