

Active Recombinant Mouse Kitl

Cat. No. Kitl-208M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Stem Cell Factor (rmSCF) produced in <i>P. pastoris</i> is a single glycosylated polypeptide chain containing 165 amino acids.
Species	Mouse
Source	<i>P.pastoris</i>
Description	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.
Form	Lyophilized after extensive dialysis against 50mM Tris, pH8.0.
Bio-activity	ED50 < 10.0 ng/ml, measured by a cell proliferation assay using human tf-1 cells, corresponding to a specific activity of >1.0x 10 ⁵ units/mg.
Molecular Mass	18.4kDa, observed by reducing SDS-PAGE.
AA Sequence	Lys26-Ala189, expressed with an N-terminal Met.
Endotoxin	< 0.2 eu/μg, determined by lal>

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Purity	>95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant protein remains stable up to 6 months at -80°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.
Reconstitution	Reconstituted in ddH ₂ O at 100 µg/ml.
GENE INFORMATION	
Gene Name	Kitl kit ligand [<i>Mus musculus</i>]
Official Symbol	Kitl
Synonyms	KITL; kit ligand; cloud gray; C-kit ligand; Steel factor; grizzle-belly; stem cell factor; mast cell growth factor; hematopoietic growth factor KL; Gb; SF; Sl; Clo; Con; Mgf; SCF; SLF; Kitlg; contrasted;
Gene ID	17311
mRNA Refseq	NM_013598
Protein Refseq	NP_038626
UniProt ID	P20826
Pathway	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor 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; Melanogenesis, conserved biosystem;

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Function

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

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