

## Recombinant Mouse Kitl Ligand, His-tagged

**Cat. No.** Kitl-1243M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Kitl contains 175 amino acids and a 13 amino acid Histidine-based tag for a total length of 188 amino acids and its predicted molecular weight of the recombinant Kitl with His tag polypeptide is 24, 23, and 21 kDa.
<b>Species</b>	Mouse
<b>Source</b>	Hordeum Vulgare
<b>Description</b>	Kitl (also known as SCF, kit-ligand, KL, or steel factor) is a cytokine that binds to the c-Kit receptor (CD117). Kitl can exist both as a transmembrane protein and a soluble protein. This cytokine plays an important role in hematopoiesis (formation of blood cells), spermatogenesis, and melanogenesis.
<b>Form</b>	Lyophilized from a 0.2 µm sterile filtered solution in 30 mM sodium acetate + 0.7 M NaCl, pH 4.5
<b>Purity</b>	> 98% as determined by SDS-PAGE analysis
<b>Endotoxin Level</b>	< 0.005 ng/g of SCF
<b>Biological Activity</b>	Determined by measuring the dose dependent effect of mouse SCF on proliferation of the factor-dependent human erythroleukemic cell line TF-1. The ED50 range is 8.4-12.8 ng/ml.
<b>Reconstitution</b>	Centrifuge vial prior to opening. Add sterile PBS to the vial to fully solubilize the

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protein to a concentration not less than 50 g/ml.

**Storage**

Store lyophilized protein at -20°C and reconstituted protein in working aliquots at -20°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.

**Official Symbol**

Kitl

## GENE INFORMATION

**Gene Name**

[Kitl kit ligand \[ Mus musculus \]](#)

**Synonyms**

Kitl; kit ligand; Gb; SF; SI; Clo; Con; Mgf; SCF; SLF; Kitlg; contrasted; kit ligand; cloudgray; C-kit ligand; Steel factor; grizzle-belly; stem cell factor; OTTMUSP00000022753; OTTMUSP00000022754; mast cell growth factor; hematopoietic growth factor KL

**Gene ID**

[17311](#)

**mRNA Refseq**

[NM\\_013598](#)

**Protein Refseq**

[NP\\_038626](#)

**UniProt ID**

P20826

**Chromosome Location**

10 D1; 10 57.0 cM

**Pathway**

Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Kit Receptor

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SignalingPathway; Melanogenesis; Pathways in cancer; Regulation of KIT signaling;Signal Transduction; Signaling by SCF-KIT

**Function**

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

**PDB rendering basedon 1exz.**

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