

Recombinant Mouse Kit Ligand, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Hordeum Vulgare
Description	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 as a soluble protein. This cytokine plays an important role in hematopoiesis (formation of blood cells), spermatogenesis, and melanogenesis.
Form	Lyophilized from a 0.2 µm sterile filtered solution in 30 mM sodium acetate + 0.7 M NaCl, pH 4.5
Purity	> 98% as determined by SDS-PAGE analysis
Endotoxin Level	< 0.005 ng/g of SCF
Biological Activity	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.
Reconstitution	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 µg/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; Sl; 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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