

## Active Recombinant Mouse Kit Ligand

Cat. No. Kitl-307M    Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Stem Cell Factor (Kitl) is involved in survival, differentiation and activation of myeloid, erythroid, lymphoid, mast cells, eosinophils and other progenitor cells. mKitl signals through its receptor, tyrosine kinase Kitl R/c-kit. It is produced in E.Coli as a single, non-glycosylated polypeptide chain containing 164 amino acids and having a molecular mass of 18,309 Daltons.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Stem Cell Factor (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.
<b>Form</b>	Lyophilized from a concentrated (1mg/ml) solution in water containing 10mM Sodium phosphate buffer pH=6.5.
<b>Purity</b>	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
<b>Bio-activity</b>	Recombinant Mouse Kitl is fully biologically active when compared to standard. The ED50, as determined by the dose-dependent stimulation of Human TF-1 cells, is 5.5 ng/ml.
<b>Physical Appearance</b>	Sterile Filtered white lyophilized (freeze-dried) powder.

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<b>Solubility</b>	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg $\mu$ s/ml, which can be further diluted into other aqueous solutions.
<b>Purity Greater than 98% as determined by</b>	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
<b>Protein Content determined by</b>	UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard.
<b>Endotoxin Level</b>	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
<b>Amino acid sequence</b>	KEICGNPVT DNVKDITKLV ANLPNDYMIT LNYVAGMDVL PSHCWLRDMV IQLSLSLTTL LDKFSNISEG LSNYSIIDKL GKIVDDL VLC MEENAPKNIK ESPKRPETRS FTPEEFFSIF NRSIDAFKDF MVASDTSDCV LSSTLGPEKD SRVSVTKPFM LPPVA
<b>Storage</b>	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.
<b>Pathways</b>	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Melanogenesis; Pathways in cancer

## GENE INFORMATION

**Gene Name** [Kitl kit ligand \[ Mus musculus \]](#)

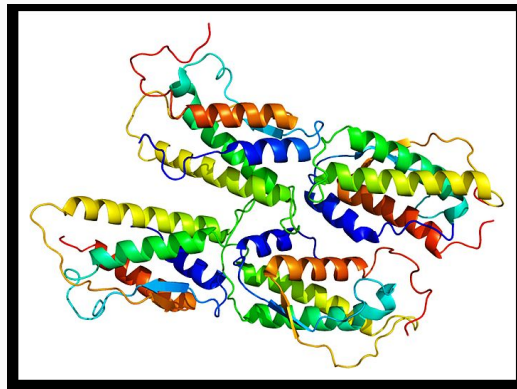
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<b>Official Symbol</b>	<a href="#">Kitl</a>
<b>Synonyms</b>	Kitl; kit ligand; Gb; SF; Sl; Clo; Con; Mgf; SCF; SLF; Kitlg; Steel; contrasted
<b>Gene ID</b>	<a href="#">17311</a>
<b>mRNA Refseq</b>	<a href="#">NM_013598</a>
<b>Protein Refseq</b>	<a href="#">NP_038626</a>
<b>UniProt ID</b>	<a href="#">P20826</a>
<b>Chromosome Location</b>	10 D1; 10 57.0 cM
<b>Function</b>	Growth factor activity; Identical protein binding; Stem cell factor receptor binding

PDB rendering based on 1exz



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