

# Mouse SCF/C-kit ligand (His Tag) recombinant protein



Catalog Number: 500260

## General Information

### Gene Name Synonym

Hematopoietic growth factor KL; Mast cell growth factor; Steel factor; Stem cell factor; c-Kit ligand; Soluble KIT ligand

### Protein Construction

A DNA sequence encoding the amino acids (Met 1-Ala 189) of mouse KITL (P20826-1) was fused with a polyhistidine tag at the C-terminus.

### Organism

Mouse

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

1. Measured by its binding ability in a functional ELISA. Immobilized mouse KITL at 2 µg/ml (100 µl/well) can bind mouse CD117 with a linear range of 1.28-32 ng/ml.
2. Measured in a cell proliferation assay using TF-1 human erythroleukemic cells (Kitamura, T. et al. 1989, J. Cell Physiol. 140:323.). The EC<sub>50</sub> for this effect is typically 0.5-5 ng/ml.
3. Measured by its ability to inhibit Ependent proliferation of TF1 human erythroleukemic cells. The ED<sub>50</sub> for this effect is 6-24 ng/mL.

### Purity

> 95 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Lys 26

### Molecular Mass

The secreted recombinant mouse KITL consists of 175 amino acids and has a calculated molecular mass of 19.7 kDa. The recombinant protein migrates as an approximately 23 kDa band in SDS-PAGE under reducing conditions.

### Formulation

- Lyophilized from sterile 20mM Tris, 50mM NaCl, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE

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