# 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  $\mu$ g/ml (100  $\mu$ l/well) can bind mouse CD117 with a linear ranger 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  $EC_{50}$  for this effect is typically 0.5-5 ng/ml.
- 3. Measured by its ability to inhibit Epodependent proliferation of TF1 human erythroleukemic cells. The  $\rm ED_{50}$  for this effect is 6-24 ng/mL.

#### **Purity**

> 95 % as determined by SDS-PAGE

#### Endotoxin

< 1.0 EU per  $\mu g$  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

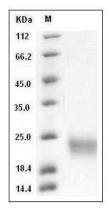
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

# **SDS-PAGE**

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