## **Product Name: Recombinant Rat SCF (C-6His)**

Catalog #: PER1573



### **Summary**

Name SCF/Stem Cell Factor/c-kit Ligand/KITLG

**Purity** Greater than 95% as determined by reducing SDS-PAGE

**Endotoxin level** <1 EU/μg as determined by LAL test.

Construction Recombinant Rat Stem Cell Factor is produced by our E.coli expression

system and the target gene encoding Gln26-Ala189 is expressed with a 6His

tag at the C-terminus.

Accession # P21581

**Host** E.coli

**Species** Rat

Predicted Molecular Mass 19.3 KDa

Formulation Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Shipping The product is shipped at ambient temperature. Upon receipt, store it

immediately at the temperature listed below.

**Stability&Storage** Lyophilized protein should be stored at  $\leq$  -20°C, stable for one year after receipt.

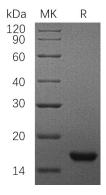
Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at  $\leq$  -20°C for 3 months.

**Reconstitution** Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is

not recommended to reconstitute to a concentration less than  $100\mu g/ml$ . Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than  $100\mu g/ml$ . Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

### **SDS-PAGE** image



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### **Background**

Alternative Names Kit ligand;Hematopoietic growth factor KL;Mast cell growth factor;MGF;Steel

factor;Stem cell factor;SCF

**Background**Stem cell factor (SCF), is the ligand for the receptor-type protein-tyrosine kinase KIT. It plays an essential role in the regulation of cell survival and proliferation,

hematopoiesis, stem cell maintenance, gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding can activate several signaling pathways. It also promotes phosphorylation of PIK3R1, which is the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. KITLG/SCF and KIT also transmit signals via GRB2 and activation of RAS, RAF1 and the MAP kinases MAPK1/ERK2 and/or MAPK3/ERK1. KITLG/SCF and KIT promote activation of STAT family members STAT1, STAT3 and

STAT5.

#### Note

For Research Use Only, Not for Diagnostic Use.

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