



## Recombinant Human Stem Cell Factor/KIT Ligand Datasheet

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**Catalog Number:** PR27122

**Product Type:** Recombinant Protein

**Source:** *E.Coli*

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Glu-Gly-Ile-Cys.

**Description/Molecular Mass:** Stem Cell Factor Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 165 amino acids and having a molecular mass of 18409 Dalton.

The SCF is purified by proprietary chromatographic techniques.

**Biological Activity:** The ED50 as determined by the dose-dependant stimulation of Human TF-1 cells is < 2 ng/ml, corresponding to a Specific Activity of  $5 \times 10^5$  IU/mg.

**Format:** Lyophilized from a concentrated (1mg/ml) solution in water containing 10mM Acetic acid.

**Reconstitution:** It is recommended to reconstitute the lyophilized Stem cell factor in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage:** Lyophilized KIT ligand although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SCF should be stored at 4°C between 2-7 day and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

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