

# Recombinant Human SCF

Cat. #: SSF-010

## Product Specifications

- Expression of Human Proteins in Human Cells
- Extremely Low Endotoxin Level
- High Purity
- Animal Free and Xeno Free
- Tag Free

## Protein Description

Recombinant human SCF expressed in engineered human cells. SCF belongs to the IL-2 protein family. SCF is a 35 to 45 kDa monomeric glycoprotein. SCF is produced by a variety of cells, such as melanocytes, hepatocytes, and bone cells. SCF promotes mast cell development, melanocyte cell survival and proliferation. SCF has been implicated in disease processes characterized by tissue remodeling and fibrosis and acts synergistically in the presence of other cytokines including EPO and GM-CSF.

## References

Kitamura T, et al. (1989) J. Cell Physiol.140, 323-334.

Ali S, et al. (2007) Gene 401, 38-45.

**Source:** Derived from human cells

**Size:** 10 µg

**Shipping:** Ambient temperature

**Structure:** Glycosylated monomer

**Purity:** >95% by SDS-PAGE

**Endotoxin Level:** <0.5 EU/µg

**Molecular Weight:** 35-45 kDa

**Formulation:** Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein

## Activity Assay

The specific activity was determined by the dose- dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line).

## Reconstitution

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

## Stability and Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80° C as supplied. 1 month, 2 to 8° C under sterile conditions after reconstitution. 3 months, -20 to -80° C under sterile conditions after reconstitution.

