

Recombinant Human, SCF / Stem Cell Factor,

Animal Free & Carrier Free

Cat #: C-CYP385

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Stem Cell Factor (SCF) is a stromal cell- derived cytokine synthesized by fibroblasts and other cell types. SCF promotes

proliferation and early differentiation of cells at the level of multipotential stem cells. SCF is a growth factor important

for proliferation, and differentiation of hematopoietic stem cells. One of its roles is to change the BFU-E (burstforming

unit-erythroid) cells, which are the earliest erythrocyte precursors in the erythrocytic series, into the CFU-E

(colony-forming unit-erythroid).

Product Information

Source: Escherichia Coli.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is <5 ng/mL. The

specific activity of recombinant human SCF is $> 5 \times 10^5 \text{ IU/mg}$.

Endotoxin: <0.1EU per $1\mu g$ of the protein by the LAL method.

Amino acid sequence:

MEGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLPSHCWISEMVVQLSDSLTDLLDKFSNISEGLSNYSIIDKLVNIVDDLVECVK

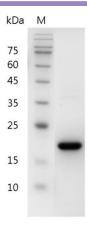
ENSSKDLKKSFKSPEPRLFTPEEFFRIFNRSIDAFKDFVVASETSDCVVSSTLSPEKDSRVSVTKPFMLPPVA with polyhistidine tag at the

C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1×PBS, pH 7.4.







SDS-PAGE analysis of recombinant human SCF

Usage Method

- 1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
- 2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H_2O . Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
- 3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
- 4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 μ g/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.

