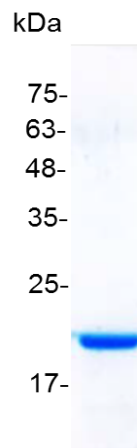


SCF, Human

v. 231001

Catalog number	C01177-5UG / C01177-20UG / C01177-100UG
Package	5 µg / 20 µg / 100 µg
Description	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 (burst-forming unit-erythroid) cells, which are the earliest erythrocyte precursors in the erythrocytic series, into the CFU-E (colony-forming unit-erythroid).
Source	<i>Escherichia coli</i>
Sequence	MEGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLP SHCWISEMVVQL SDSLTDLLDKFSNISEGLSNYSIIDKLVNIVDDLVECVKENSSKDLKKSFKSPEPR LFTPEEFFRIFNRSIDAFKDFVVASETSDCVVSSSTLSPEKDSRVSVTKPFMLPPV A with polyhistidine tag at the C-terminus
Endotoxin level	<0.1 EU per 1 µg of the protein by the LAL method.
Activity	Measure by its ability to induce TF-1 cells proliferation. The ED ₅₀ for this effect is <5 ng/mL. The specific activity of recombinant human SCF is > 5 x 10 ⁵ IU/mg.
Purity	>98% as determined by SDS-PAGE.
Form	Lyophilized
Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Stability & Storage	This product is stable after storage at: <ul style="list-style-type: none"> • -20°C for 12 months in lyophilized state from date of receipt. • -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.



SDS-PAGE analysis of recombinant human SCF

For research use only.