Recombinant Human SCF
Catalog # CD53
Derived from Human Cells

DESCRIPTION
Recombinant Human Stem Cell Factor is produced by our Mammalian expression system and the target gene encoding Glu26-His214 is expressed with a 6His tag at the C-terminus.
Accession #: P21583
Known as: Kit Ligand; Mast Cell Growth Factor; MGF; Stem Cell Factor; SCF; c-Kit ligand; KITLG; MGF; SCF

FORMULATION
Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

SHIPPING
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

STORAGE
Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
Aliquots of reconstituted samples are stable at < -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 100μg/ml.
Dissolve the lyophilized protein in distilled water.
Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

QUALITY CONTROL
Bioactivity* Measured in a cell proliferation assay using TF-1 human erythroleukemic cells
The ED50 for this effect is typically 1-15 ng/mL.
Purity: Greater than 95% as determined by reducing SDS-PAGE.
Endotoxin: Less than 0.1 ng/μg (1 IEU/μg).

AMINO ACID SEQUENCE
EGICRNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLPSHCWISEMVQVLSDLTLDDLKFSNISNLGSNSIDKLVLNIVDD
LVECVKENNSSSDLKKSFKSPEPRLFPEFFFRIFNRSIDAKDFVVAETSDCVVSTLPSKDERSVSVTPFMPPVAASSLRNDSS
SSNRKAKNPGDSSLHVDHHHHHH

BACKGROUND
Stem Cell Factor (SCF) is a hematopoietic growth factor that exerts its activity at the early stages of hematopoiesis. SCF stimulates the proliferation of myeloid, erythroid, and lymphoid progenitors in bone marrow cultures and has been shown to act synergistically with colony stimulating factors.