

Recombinant Rat Stem Cell Factor (rr SCF)

Stem Cell Factor is a hematopoietic growth factor that exerts its activity by signaling through the c-Kit receptor. SCF and c-Kit are essential for the survival, proliferation and differentiation of hematopoietic cells committed to the melanocyte and germ cell lineages.

Human SCF manifests low activity on murine cells, while murine and rat SCF are fully active on human cells.

Recombinant rat SCF is an 18.4 kDa polypeptide containing 165 amino acid residues that corresponds to the sequence of the secreted soluble form of SCF.

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| Synonyms : | c-Kit Ligand, Mast Cell Growth Factor (MGF), Steel Factor (SF) |
| Source: | <i>Escherichia coli</i> |
| AA Sequence: | Testing in progress |
| Formulation: | Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate, pH 7.2 + 200 mM NaCl. |
| Reconstitution: | Reconstitute in sterile endotoxin free water not less than 100 µg/ml |
| Stability: | The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rr SCF is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles. |
| Biological Activity: | Determined by the dose-dependent stimulation of the proliferation of the human TF-1 cells |
| Purity: | 95% (verified by SDS-PAGE / silver stain) |
| Endotoxicity: | The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method |
| Order N°: | rr SCF+Size available sizes: 2 µg, 10 µg, 50 µg |

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