CHASELECTION

Recombinant Human SCF

Catalog Number**:** CY061F0XXX

Synonym： Stem Cell Factor, c-Kit Ligand, Mast Cell Growth Factor (MGF), Steel Factor

Source： *E.coli*

Structure:
The protein carries no tag
NO.：NP_000890 Gene ID：4254
AA Sequence：Glu26-Ala189

Molecular Weight: 18.59 kDa

Purity: ≥90%（SDS-PAGE & HPLC）

Endotoxin： ＜0.5 EU/μg

Formulation： 50mM Tris，150mM NaCl，pH8.0

Reconstitution：
1. Before opening, please briefly centrifuge the contents to the bottom;
2. It is recommended to initially dissolve in sterile deionized water to an appropriate concentration (recommended concentration is 0.2-1mg/ml);
3. If further dilution is required, it is recommended to dilute the solution with a solution containing carrier proteins (such as 0.1% BSA, 10% FBS, and 5% HSA).

Shipping & Storage:
The product is shipped with blue ice.

If long-term storage is required, this product should be stored at ≤ -20 ℃, please avoid repeated freeze-thaw cycles.

1. Dry powder can be stored at ≤ -20 for at least 24 months;
2. After reconstitution, it can be stored for 1 month under sterile conditions at 2-8 ℃ ;
3. After reconstitution, it can be stored for 12 months under sterile conditions at -20~ -70℃.

Description：
SCF 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. The human SCF gene encodes for a 273 amino acid transmembrane protein, which contains a 25 amino acid N-terminal signal sequence, a 189 amino acid extracellular domain, a 23 amino acid transmembrane domain, and a 36 amino acid cytoplasmic domain. The secreted soluble form of SCF is generated by proteolytic processing of the membrane anchored precursor.