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KITLG
Recombinant Human SCF / KIT Ligand with C-terminal His

Catalog No.	CRS203A	**Quantity:**	2 µg
	CRS203B		10 µg
	CRS203C		1 mg

Alternate Names: Stem cell factor, Kit-ligand, Mast cell growth factor, MGF

Description: Stem cell factor / KIT ligand (SCF) is a cytokine which binds CD117(c-Kit). SCF is also known as "steel factor" or "c-kit ligand". SCF exists in two forms, cell surface bound SCF and soluble (or free) SCF. Soluble SCF is produced by the cleavage of surface bound SCF by metalloproteases.
SCF is a growth factor important for the survival, proliferation, and differentiation of hematopoietic stem cells and other hematopoietic progenitor 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).

UniProt ID: P21583

Gene ID: 4254

Source: Insect cells, Sf9

Molecular Weight: 18.4 kDa (165 aa) with C-terminal (6X) His-tag

Formulation: Lyophilized from PBS, pH 7.4.

Purity: 98% by SDS-PAGE analysis

Endotoxin Level: < 0.1 ng/µg

Quantitation: UV spectroscopy, $E^{0.1\%}_{280nm}$ = 0.52

Biological Activity: ED_{50} is typically 1-5 ng/ml, determined by the dose-dependent proliferation of human TF -1 cells.

Reconstitution: **Centrifuge vial prior to opening**. Reconstitute in 10 mM acetic acid to a concentration of 0.1-1.0 mg/ml. This solution can be then diluted into other aqueous buffers and stored at 2-8°C for 1 week or at -20°C for future use.

Storage & Stability: Upon receipt store at -20°C to -80°C. Reconstituted human SCF may be stored at 2-8°C for 1 week, or for long-term in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles**.

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