
Mouse Stem Cell Factor (SCF) Recombinant Protein

Catalog Number: 14-8341

Also Known As: kit-ligand, KL, steel factor

For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Mouse Stem Cell Factor (SCF) Recombinant Protein

REF **Catalog Number:** 14-8341

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: E. coli expressed amino acids Lys 26-Ala 189 of mature mouse SCF accession # M59915


Molecular Mass: The protein is not methionylated at the N-terminal and has a predicted molecular mass of 18,298. The DTT reduced protein migrates as an 18 kDa polypeptide on SDS-PAGE. The non-reduced protein migrates as a 16 kDa polypeptide.

Purity: Greater than or equal to 95%, as determined by SDS-PAGE


Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: The ED50 of this protein, as measured by MC/9 cell proliferation assay, is less than or equal to 65 ng/mL. This corresponds to a specific activity of greater than or equal to 1.5 x 10⁴ Units/mg.

Formulation: Sterile liquid; phosphate buffered saline, pH 7.2, 1.0% BSA. 0.22 um filtered.

 **Temperature Limitation:** Store at less than or equal to -70°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

Mouse Stem Cell Factor (SCF) is a hematopoietic growth factor and ligand for the KIT tyrosine kinase receptor, which exerts its activity in the early stages of hematopoiesis. Mouse SCF stimulates the proliferation of myeloid, erythroid, and lymphoid progenitors in bone marrow cultures.

Applications Reported

Recombinant mouse SCF is biologically active.

Applications Tested

The ED50 of this protein, as measured by MC/9 cell proliferation assay, is less than or equal to 65 ng/ml. This corresponds to a specific activity of greater than or equal to 1.5 x 10⁴ Units/mg.

Related Products

14-0341 Anti-Mouse CD34 Purified (RAM34)

14-1271 Anti-Mouse CD127 Purified (A7R34)

14-1331 Anti-Mouse CD133 (Prominin-1) Purified (13A4)

14-5981 Anti-Mouse Ly-6A/E (Sca-1) Purified (D7)

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