

## OriGene Technologies Inc.

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# PA1125XC OriGene EU

#### **Acris Antibodies GmbH**

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# Recombinant Mouse Stem Cell Factor (rmSCF)

Catalog No.: PA1125XC

Quantity: 1 mg

Species: Mouse Source: E. coli

**Format:** Purity: >98% is greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.(b) Anion-exchange FPLC.

(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel. Endotoxin is less

than. 0.1 ng/µg (IEU/µg) of Murine SCF.

Dimers / aggregates:

Less tha

**Description:** Recombinant murine SCF produced in E.Coli is a single, non-glycosylated polypeptide

chain containing 164 amino acids and having a molecular mass of 18309 Dalton. The SCF is purified by proprietary chromatographic techniques. Format: rmSCF is supplied as sterile filtered white freeze-dried powder. It was lyophilized from a concentrated (1 mg/ml) solution in water containing 10 mM Sodium phosphate buffer pH = 6.5 . It is recommended to reconstitute the lyophilized rmSCF in sterile 18M-cm H2O not less than 100  $\mu$ g/ml, which can then be further diluted with other aqueous solutions. Protein quantitation was carried out by: 1. UV spectroscopy at 280 nm using the absorbency value of 0.52 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a

standard solution of SCF as a Reference Standard.

Molecular weight: 18 kDa

Storage: Lyophilized Mouse SCF although stable at room temperature for 3 weeks, should be stored

desiccated below -18°C. Upon reconstitution rmSCF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a

carrier protein (0.1% HSA or BSA).

Please avoid freeze-thaw cycles. Shelf life: one year from despatch.

General Readings: 1. Reduced stem cell factor links smooth myopathy and loss of interstitial cells of cajal in

murine diabetic gastroparesis. Gastroenterology 2006 Mar;130(3):759-70

2. Bcl-2 reduced and fas activated by the inhibition of stem cell factor/KIT signaling in

murine melanocyte precursors. J Invest Dermatol 2005 Jan;124(1):229-34

3. In vitro induction of inhibitory macrophage differentiation by granulocyte-macrophage colony-stimulating factor, stem cell factor and interferon-gamma from lineage phenotypes-

negative c-kit-positive murine hematopoietic progenitor cells. Immunol Lett 2004 Feb 15;91(2-3):221-7

4. E2a/Pbx1 induces the rapid proliferation of stem cell factor-dependent murine pro-T cells

that cause acute T-lymphoid or myeloid leukemias in mice.

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com

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## PA1125XC: Recombinant Mouse Stem Cell Factor (rmSCF)

Mol Cell Biol 2004 Feb; 24(3):1256-69

- 5. Enhanced antileukemic activity of allogeneic peripheral blood progenitor cell transplants following donor treatment with the combination of granulocyte colony-stimulating factor (G-CSF) and stem cell factor (SCF) in a murine transplantation model. Bone Marrow Transplant 2003 Jul;32(1):49-56
- 6. Increment of murine spermatogonial cell number by gonadotropin-releasing hormone analogue is independent of stem cell factor c-kit signal.

  Biol Reprod 2003 Jun

