

## OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 <u>US-info@acris-antibodies.com</u>

## PA1125X OriGene EU

Acris Antibodies GmbH Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

## Recombinant Mouse Stem Cell Factor (rmSCF)

Catalog No.:	PA1125X
Quantity:	10 µg
Species:	Mouse
Source:	E. coli
Format:	<ul> <li>Purity: &gt;98% is greater than 98.0% as determined by:</li> <li>(a) Analysis by RP-HPLC.</li> <li>(b) Anion-exchange FPLC.</li> <li>(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.</li> <li>Dimers / aggregates:</li> <li>Less tha</li> </ul>
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. <b>Molecular weight:</b> 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:	<ol> <li>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</li> <li>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</li> <li>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</li> <li>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.</li> </ol>

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.



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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

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