

RECOMBINANT MOUSE STEM CELL FACTOR

CATALOG NUMBER:	GF141	QUANTITY:	10 µg
LOT NUMBER:			
ALTERNATE NAMES:	SCF; c-kit ligand; Mast cell growth factor; Hematopoietic growth factor KL; Steel factor		
DESCRIPTION:	Stem Cell Factor (SCF) is a hematopoietic growth factor that exerts its activity at the early stages of hematopoiesis. SCF stimulates the proliferation of myeloid, erythroid, and lymphoid progenitors in bone marrow cultures and has been shown to act synergistically with colony stimulating factors. Mouse SCF is an 18.3 kDa protein containing 164 amino acid residues.		
SOURCE:	<i>E.coli</i>		
PURITY:	Greater than 98% by SDS-PAGE. Endotoxin level is less than 0.1 ng per µg (1EU/ug) of SCF.		
ACTIVITY:	Mouse SCF is biologically active when compared to standards. The ED ₅₀ , as determined by the dose-dependent stimulation of the proliferation of the human TF-1 cell line is ≤ 10 ng/mL, corresponding to a specific activity of ≥ 1 x 10 ⁵ units/mg.		
PRESENTATION:	Lyophilized from sterile filtered 10 mM Sodium Phosphate, pH 6.5, containing no additives.		
STORAGE/HANDLING:	The lyophilized powder, though stable at room temperature, is best stored at -20°C for up to 12 months after date of receipt. After a quick spin, reconstitute with sterile water to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made into a buffer and stored at 4°C for one week or at -20°C for future use. Reconstituted human SCF should be stored in undiluted aliquots at -20°C for up to 6 months. Avoid repeated freeze/thaw cycles.		

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

For research use only; not for use as a diagnostic.

Unless otherwise stated in our catalog or other company documentation accompanying the product(s), our products are intended for research use only and are not to be used for any other purpose, which includes but is not limited to, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses or any type of consumption or application to humans or animals.

©2008: Millipore Corporation. All rights reserved. No part of these works may be reproduced in any form without permission in writing.

USA & Canada • Phone: +1(800) 437-7500 • Fax: +1 (951) 676-9209 • Europe +44 (0) 23 8026 2233
Australia +61 3 9839 2000
www.millipore.com