

Recombinant rat Stem Cell Factor (SCF)

CATALOG #:	4329-10	10 µg
	4329-50	50 µg
	4329-500	0.5 mg
	4329-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/µg of SCF.	
FORM:	Lyophilized from 20 mM Tris, pH 7.5	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute with sterile 10 mM acetic acid to a concentration of 0.1 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

STORAGE CONDITIONS:

The lyophilized rat SCF is best-stored desiccated below 0°C. Reconstituted SCF should be stored in working aliquots at -20°C.

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. Recombinant rat SCF is an 18.4 kDa protein containing 165 amino acid residues, which corresponds to the sequence of the secreted soluble form of SCF.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of human MO7e cells is ≤10 ng/ml, corresponding to a specific activity of ≥1 x 10⁵ units/mg.

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