

Stem Cell Factor, Rat Recombinant

Catalog No.	CRS202A CRS202B CRS202C	Quantity:	2 µg 10 µg 1 mg
Name:	Stem Cell Factor (SCF)		
Alternate Names:	KIT ligand, Mast Cell Growth Factor, MGF, SF, KL-1		
Description:	Rat recombinant SCF is a single, non-glycosylated polypeptide chain containing 165 amino acids and has a MW = 18.4 kDa.		
Source:	<i>E. coli</i>		
Formulation:	Sterile filtered, lyophilized from a concentrated (1 mg/ml) solution in water containing 20 mM Tris, pH 7.5.		
Purity:	Greater than 98.0% as determined by analysis by RP-HPLC and SDS-PAGE		
Endotoxin Level:	Less than 0.1 ng/µg of recombinant rat SCF.		
Biological Activity:	Determined by the dose-dependant stimulation of the proliferation of human MO7e cells. The ED ₅₀ is < 10 ng/ml.		
Specific Activity:	> 1 x 10 ⁵ units/mg		
Amino Acid Sequence:	The sequence of the first five N-terminal amino acids is Met-Gln-Glu-Ile-Cys.		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute in sterile, distilled water not less than 100 µg/ml, which can then be further diluted into other aqueous solutions.		
Storage & Stability:	Lyophilized samples are stable at room temperature for 2 weeks, but it is recommended to store them desiccated at -20°C to -80°C. Upon reconstitution, protein should be stored at 2-4°C for one week and for six months at -20°C to -80°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

