

Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity
Kitl

Recombinant Mouse Stem Cell Factor with HQ Tag

Catalog No.	CRS153A CRS153B CRS153C CRS153D	Quantity:	10 µg 50 µg 1 mg 100 µg
Alternate Names:	Stem Cell Factor, KITLG, Gb, Kit ligand, KITL, KI2, MGF, SLF		
Description:	Recombinant mouse Stem Cell Factor contains 175 amino acids and a 13 amino acid HQ tag for a total length of 188 amino acids. The predicted molecular weight of the recombinant SCF with HQ Tag polypeptide is 20.5 kDa, but the recombinant protein migrates as three bands with an apparent molecular mass of 24, 23, and 21 kDa in SDS-PAGE as a result of glycosylation.		
Gene ID:	17311		
Protein Accession No:	NP_038626		
Source:	<i>Hordeum vulgare</i> (barley grain). Barley grain exhibits up to 50 times less protease activity than <i>E. coli</i> or mammalian cells. Barley seed is void of any human or animal viral contaminants that could jeopardize cell culture.		
Molecular Weight:	24, 23, and 21 kDa		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution in 30 mM sodium acetate + 0.7 M NaCl, pH 4.5		
Purity:	>98% by SDS-PAGE		
Endotoxin Level:	<0.005 ng/µg of SCF		
Biological Activity:	Determined by measuring the dose dependent effect of mouse SCF on proliferation of the factor-dependent human erythroleukemic cell line TF-1. The ED ₅₀ range is 8.4-12.8 ng/ml.		
Reconstitution:	Centrifuge vial prior to opening. Add sterile PBS to the vial to fully solubilize the protein to a concentration not less than 50 µg/ml.		
Storage & Stability:	Store lyophilized protein at -20°C and reconstituted protein in working aliquots at -20°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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



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