

Active Recombinant Rat Kitlg Protein (164 aa)

Cat. No. Kitlg-150K **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Kitlg Protein (164 aa) without tag was expressed in P. pastoris.
Species	Rat
Source	P.pastoris
ProteinLength	164
Description	Stem Cell Factor (SCF) is a hematopoietic growth factor that binds to the c-Kit receptor. SCF exerts its activity during 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 25 ng/mL, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 4 × 10 ⁴ units/mg.
Molecular Mass	18.3 kDa, observed by reducing SDS-PAGE.
AA Sequence	QEICRNPVTDNVKDITKLVANLPNDYMITLNYVAGMDVLP SHCWLRDMVTHLSVSLT TLLDKFSNISEGLSNYSIIDKLGKIVDDL VACMEENAPKNVKESLKKPETRNFTPEEFF SIFNRSIDAFKDFMVASDTSDCVLSSTLGPEKDSRVSVTKPFMLPPVA

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE analysis.
Storage	Lyophilized recombinant rat Stem Cell Factor (rrSCF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrSCF should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.
GENE INFORMATION	
Gene Name	Kitlg KIT ligand [<i>Rattus norvegicus</i> (Norway rat)]
Official Symbol	Kitlg
Synonyms	Kitlg; KIT ligand; Mgf; SCF; Kitl;
Gene ID	60427
mRNA Refseq	NM_021843
Protein Refseq	NP_068615
UniProt ID	P21581