

Active Recombinant Mouse Kitl Protein (165 aa)

Cat. No. Kitl-151K Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Kitl Protein (165 aa) without tag was expressed in <i>P. pastoris</i> .
Species	Mouse
Source	<i>P.pastoris</i>
ProteinLength	165
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 < 10.0 ng/mL, measured by a cell proliferation assay using human TF-1 cells, corresponding to a specific activity of > 1.0 × 10 ⁵ units/mg.
Molecular Mass	18.4kDa, observed by reducing SDS-PAGE.
AA Sequence	MKEICGNPVTDNVKDITKLVANLPNDYMITLNYVAGMDVLP SHCWL RDMVIQLSLSL TTLLDKFSNISEGLSNYSIIDKLGKIVDDLVL CMEENAPKNIKESPKRPETRSFTPEEFF SIFNRSIDAFKDFMVASDTSDCVLSSTLGPEKDSRVSVTKPFMLPPVA

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant mouse Stem Cell Factor (rmSCF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmSCF 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 50mM Tris, pH8.0.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

GENE INFORMATION

Gene Name	Kitl kit ligand [Mus musculus (house mouse)]
Official Symbol	Kitl
Synonyms	Kitl; kit ligand; Gb; SF; Sl; Clo; Con; Mgf; SCF; SLF; blz; Kitlg; contrasted; kit ligand; C-kit ligand; Steel factor; cloud gray; grizzle-belly; hematopoietic growth factor KL; mast cell growth factor; stem cell factor; EC 3.2.1.31
Gene ID	17311
mRNA Refseq	NM_013598
Protein Refseq	NP_038626
UniProt ID	P20826

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