

Recombinant Rat Kitlg Protein

Cat. No. Kitlg-200R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Kitlg Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Stem cell factor (SCF) is a cytokine made by fibroblasts and endothelial cells. SCF binds to the receptor c-Kit/CD117 and plays a critical role in the maintenance, survival, and differentiation of hematopoietic stem cells. Human SCF shows no activity on murine cells, but murine and rat SCF are active on human cells.
Bio-activity	No biological activity data is available at this time.
Molecular Mass	Monomer, 18.5 kDa (165 aa)
AA Sequence	MQEICRNPVTDNVKDITKLVANLPNDYMITLNYVAGMDVLP SHCWLRDMVTHLSVSL TLLDKFSNISEGLSNYSIIDKLGKIVDDL VACMEENAPKNVKESLKKPETRNF TPEEF FSIFNRSIDAFKDFMVASDTSDCVLSSTLGPEKDSRVSVTKPFMLPPVA
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed.

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3 months when stored at -20 to -80 centigrade after reconstituting as directed.

Storage

Storage Prior to Reconstitution: -20 centigrade

Storage Buffer

Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

Reconstitution

Sterile 10 mM HCl at 0.1 mg/mL

Shipping

Room temperature

Instructions

Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name

Kitlg KIT ligand [*Rattus norvegicus* (Norway rat)]

Official Symbol

Kitlg

Synonyms

KITLG; KIT ligand; kit ligand; C-kit ligand; stem cell factor KL-1; mast cell growth factor; steel factor/kit ligand; hematopoietic growth factor KL; Mgf; SCF; Kitl;

Gene ID

60427

mRNA Refseq

NM_021843

Protein Refseq

NP_068615

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UniProt ID

P21581

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