

Recombinant Rat SCF (C-6His)

Catalog #	EPT253
Expression Host	Human Cells
DESCRIPTION	Recombinant Rat Kit Ligand is produced by our
	Mammalian expression system and the target gene
	encoding Gln26-Ala189 is expressed with a 6His tag at
	the C-terminus.
Accession	P21581
Synonyms	FPH2; KIT ligand; Kitl; KITLG; KL-1; Mast cell growth
	factor; MGF; MGFSHEP7; SCF; SCFStem cell factor;
	SFc-Kit ligand; SLF; steel factor
Mol Mass	19.4 KDa
AP Mol Mass	23-40 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH
	7.4.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. Lyophilized protein should be stored at < -20 ° C, STORAGE though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months. BACKGROUND SCF/C-kit ligand is the ligand of the tyrosine-kinase receptor encoded by the KIT locus. Plays an essential role in the regulation of cell survival and proliferation, hematopoiesis, cell maintenance, stem gametogenesis, mast cell development, migration and function, and in melanogenesis. KITLG/SCF binding

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can activate several signaling pathways. Promotes phosphorylation of PIK3R1, the regulatory subunit of phosphatidylinositol 3-kinase, and subsequent activation of the kinase AKT1. In phase I/II clinical studies administration of the combination of SCF and G-CSF resulted in a two- to threefold increase in cells that express the CD34 antigen compared with G-CSF alone.



SDS-PAGE



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