

Recombinant Human SCF/c-kit Ligand Protein (Fc Tag)

RPES8347



Product Information

Product SKU: RPES8347	Expression Host: Mammalian	Size: 20µg
Tag: C-Fc	Reactivity: Human	Accession: P21583

Additional Information

Calculated MW: 43.0 kDa	Observed MW: 50 kDa
Sequence: Glu26-Ala190	

Protein Information

Background: Similar to Kit ligand precursor (C-kit ligand) , also known as Stem cell factor (SCF) , Mast cell growth factor (MGF) , or Hematopoietic growth factor KL. SCF/C-kit ligand is the ligand of the tyrosine-kinase receptor encoded by the KIT locus. This ligand is a pleiotropic factor that acts in utero in germ cell and neural cell development , and hematopoiesis , all believed to reflect a role in cell migration. In adults , it functions pleiotropically , while mostly noted for its continued requirement in hematopoiesis. SCF/C-kit ligand stimulates the proliferation of mast cells. This protein can augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. It may act synergistically with other cytokines , probably interleukins SCF/C-kit ligand is the ligand for the tyrosine kinase receptor c-kit , which is expressed on both primitive and mature hematopoietic progenitor cells. In vitro , SCF/C-kit ligand synergizes with other growth factors , such as granulocyte colony-stimulating factor (G-CSF) , granulocyte-macrophage colony-stimulating factor , and interleukin-3 to stimulate the proliferation and differentiation of cells of the lymphoid , myeloid , erythroid , and megakaryocytic lineages. In vivo , SCF/C-kit also synergizes with other growth factors and has been shown to enhance the mobilization of peripheral blood progenitor cells in combination with G-CSF. 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.

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Synonyms:	FPH, DFNA, SHEP, KITLG, DCUA, DFNA69, FPH2, FPHH, KL-1, Kitl, MGF, SCF, SF, SHEP7, c-Kit ligand, Kit Ligand, Mast Cell Growth Factor, Stem Cell Factor
Endotoxin:	< 1.0 EU/mg of the protein as determined by the LAL method
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS with 5% Trehalose and 5% Mannitol.
Purity:	> 90% as determined by reducing SDS-PAGE.
Bio-Activity:	Not validated for activity
Storage:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.