Recombinant Mouse Kitlg, Fc-tagged

Cat. No. Kitlg-486M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of mouse SCF (aa 26-214) is fused to the N-terminus of the Fc region of mouse IgG2a.
Species	Mouse
Source	CHO
ProteinLength	26-214 a.a.
Description	Stem cell factor (SCF), also known as cKit ligand (KL), mast cell growth factor (MGF), and steel factor (SLF), is a widely expressed 28-40 kDa type I transmembrane glycoprotein. It promotes the survival, differentiation, and mobilization of multiple cell types including myeloid, erythroid, megakaryocytic, lymphoid, germ cell, and melanocyte progenitors. SCF is a primary growth and activation factor for mast cells and eosinophils. Noncovalent dimers of transmembrane or soluble SCF interact with the receptor tyrosine kinase SCF R/cKit to trigger receptor dimerization and signaling. SCF assists in the recovery of cardiac function following myocardial infarction by increasing the number of cardiomyocytes and vascular channels.
Form	Lyophilized from 0.2μm-filtered solution in PBS.
Purity	≥98% (SDS-PAGE)
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

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Storage	Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	Kitl?kit ligand [?Mus musculus?(house mouse)]
Official Symbol	Kitlg
Synonyms	Kitl; Gb; SF; Sl; Clo; Con; Mgf; SCF; SLF; blz; Kitlg; contrasted; kit ligand; cloud gray; C-kit ligand; Steel factor; grizzle-belly; stem cell factor; mast cell growth factor; hematopoietic growth factor KL
Gene ID	17311
mRNA Refseq	NM_013598
Protein Refseq	?NP_038626
UniProt ID	P20826
Chromosome Location	10 D1; 10 51.4 cM
Pathway	Adaptive Immune System; Constitutive PI3K/AKT Signaling in Cancer; Cytokine-cytokine receptor interaction
Function	cytokine activity; growth factor activity; protein binding

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