

## Active Recombinant Human KITLG, HlgG1 Fc-tagged, mutant

Cat. No. KITLG-21H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	The extracellular domain of human SCF (NP_003985.2) (aa 26-187) is fused to the N-terminus of the Fc region of a mutant human IgG1 was expressed in CHO cell.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	26-187 a.a.
<b>Description</b>	This gene encodes 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. Two transcript variants encoding different isoforms have been found for this gene.
<b>Form</b>	Lyophilized from 0.2µm-filtered solution in PBS.
<b>Bio-activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells.
<b>Molecular Mass</b>	47 KDa (monomer)
<b>AA Sequence</b>	The extracellular domain of human SCF (NP_003985.2) (aa 26-187) is fused to the N-terminus of the Fc region of a mutant human IgG1.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	<0.06 eu/μg="" as="" determined="" by="" la="">
<b>Purity</b>	>98%, by SDS-PAGE under reducing conditions.
<b>Stability</b>	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.
<b>Reconstitution</b>	Reconstitute at 100μg/ml in sterile PBS.
<b>Warning</b>	Avoid freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">KITLG KIT ligand [ Homo sapiens ]</a>
<b>Official Symbol</b>	KITLG
<b>Synonyms</b>	KITLG; KIT ligand; MGF; kit ligand; familial progressive hyperpigmentation 2; FPH2; Kitl; KL 1; mast cell growth factor; SCF; SF; steel factor; stem cell factor; c-Kit ligand; KL-1; SHEP7; kit-ligand; DKFZp686F2250;
<b>Gene ID</b>	<a href="#">4254</a>
<b>mRNA Refseq</b>	<a href="#">NM_000899</a>
<b>Protein Refseq</b>	<a href="#">NP_000890</a>
<b>MIM</b>	<a href="#">184745</a>
<b>UniProt ID</b>	<a href="#">P21583</a>

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<b>Chromosome Location</b>	12q22
<b>Pathway</b>	C-MYB transcription factor network, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Kit Receptor Signaling Pathway, organism-specific biosystem; Melanogenesis, organism-specific biosystem;
<b>Function</b>	cytokine activity; growth factor activity; protein binding; stem cell factor receptor binding;

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