

Active Recombinant Human KITLG Protein, His-tagged, Biotinylated

Cat. No. KITLG-522H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human KITLG Protein (Glu 26 - Ala 190) (AAH69797), fused with an Avi tag at the C-terminus, followed by a polyhistidine tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Glu 26 - Ala 190
Predicted N Terminal	Glu 26
Form	Lyophilized from sterile PBS, pH7.4, 10% trehalose.
Bio-activity	Measured by its binding ability in a functional ELISA. Immobilized Human CD117, Fc Tag at 2µg/mL (100 µL/well) can bind Biotinylated Human SCF, His Tag with a linear range of 0.1-3.1 ng/mL.
Molecular Mass	Recombinant Human KITLG Protein has a calculated MW of 21.7 kDa. The protein migrates as 26-38 kDa on a SDS-PAGE gel under reducing (R) condition due to different glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method.

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Purity	>95% as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin

GENE INFORMATION

Gene Name	KITLG KIT ligand [Homo sapiens]
Official Symbol	KITLG
Synonyms	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;
Gene ID	4254
mRNA Refseq	NM_000899
Protein Refseq	NP_000890
MIM	184745
UniProt ID	P21583

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Chromosome Location	12q22
Pathway	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;
Function	cytokine activity; growth factor activity; protein binding; stem cell factor receptor binding;

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