

# Active Recombinant Human KITLG Protein, His-tagged, Biotinylated

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

## SPECIFICATION

|                             |                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | 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.                |
| <b>Species</b>              | Human                                                                                                                                                                                         |
| <b>Source</b>               | HEK293                                                                                                                                                                                        |
| <b>ProteinLength</b>        | Glu 26 - Ala 190                                                                                                                                                                              |
| <b>Predicted N Terminal</b> | Glu 26                                                                                                                                                                                        |
| <b>Form</b>                 | Lyophilized from sterile PBS, pH7.4, 10% trehalose.                                                                                                                                           |
| <b>Bio-activity</b>         | 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. |
| <b>Molecular Mass</b>       | 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.             |
| <b>Endotoxin</b>            | Less than 1.0 EU per µg by the LAL method.                                                                                                                                                    |

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|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95% as determined by SDS-PAGE.                                                                                                                                               |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -70°C.                                                                                                     |
| <b>Storage</b>        | 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.                     |
| <b>Reconstitution</b> | 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. |
| <b>Conjugation</b>    | Biotin                                                                                                                                                                        |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                         |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | KITLG KIT ligand [ Homo sapiens ]                                                                                                                                                                                       |
| <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>         | 4254                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_000899                                                                                                                                                                                                               |
| <b>Protein Refseq</b>  | NP_000890                                                                                                                                                                                                               |
| <b>MIM</b>             | 184745                                                                                                                                                                                                                  |
| <b>UniProt ID</b>      | P21583                                                                                                                                                                                                                  |

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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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