

## Recombinant Rat KIT Ligand

**Cat. No.** Kitlg-5267R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat Kitlg isa 18.4 kDa protein and was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | Kitlg is a type Itransmembrane protein and hematopoietic growth factor which acts in synergywith other growth factors, and signals through the receptor tyrosine kinasec-Kit (CD117). The interaction between Kitlg and c-Kit regulatesdevelopmental and functional processes of hematopoietic progenitor cells,mast cells, myelanocytes and germ cells, and plays an important role infollicular development. |
| <b>Form</b>             | Purified recombinantprotein - lyophilized.                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Application</b>      | Functional Assays                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Preparation</b>      | Purified recombinant SCF expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Weight</b> | 18.4kD (154 amino acid residues).                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | > 98% by SDS PAGE and HPLC analysis                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin Level</b>  | < 1EU/ug                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Concentration</b>    | 0.1mg/ml after reconstitution                                                                                                                                                                                                                                                                                                                                                                                  |

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**Storage**

Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**GENE INFORMATION**

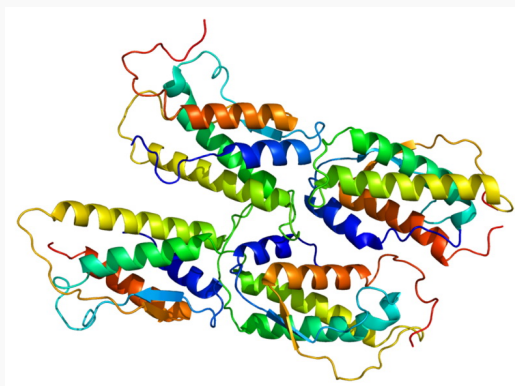
|                            |                                                                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | Kitlg KIT ligand [ <i>Rattus norvegicus</i> ]                                                                                                                        |
| <b>Official Symbol</b>     | Kitlg                                                                                                                                                                |
| <b>Synonyms</b>            | Kitlg; KIT ligand; Mgf; SCF; Kitl; kit ligand; C-kit ligand; stem cell factor KL-1; mast cell growth factor; steel factor/kil ligand; hematopoietic growth factor KL |
| <b>Gene ID</b>             | 60427                                                                                                                                                                |
| <b>mRNA Refseq</b>         | NM_021843                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_068615                                                                                                                                                            |
| <b>UniProt ID</b>          | P21581                                                                                                                                                               |
| <b>Chromosome Location</b> | 7q13                                                                                                                                                                 |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; Kit Receptor Signaling Pathway; Melanogenesis; Pathways in cancer                                |
| <b>Function</b>            | cytokine activity; growth factor activity; identical protein binding; stem cell factor receptor binding                                                              |

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