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# Product datasheet for DA3548S

## KITLG / SCF Human Protein

### Product data:

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|---|---|
| **Product Type:** | Recombinant Proteins |
| **Description:** | KITLG / SCF human recombinant protein, 2 µg |
| **Species:** | Human |
| **Expression Host:** | E. coli |
| **Predicted MW:** | 18.5 kDa |
| **Purity:** | >98% > 98% by RP-HPLC, Anion-exchange FPLC, Silver stain |
| **Buffer:** | Presentation State: Purified<br>State: Lyophilized without stabilizer<br>Buffer System: 10 mM acetic acid |
| **Bioactivity:** | Biological: Recombinant human SCF is fully biologically active when compared to standards. The ED50 determined by the dose-dependent stimulation of human TF-1 cells is < 2.0 ng/ml.<br>Specific: 1 x 10e5 units/mg |
| **Endotoxin:** | < 0.1 ng per µg (IEU/µg) of rh SCF |
| **Reconstitution Method:** | The lyophilized powder should be reconstituted in water to a concentration not less than 0.1 mg/ml. This solution can be stored at 4°C for future use or diluted into other buffered solutions. Further dilutions should be made into buffer containing carrier protein or medium containing serum. |
| **Preparation:** | Lyophilized without stabilizer |
| **Protein Description:** | Recombinant Human SCF |
| **Note:** | Centrifuge vials before opening! |
| **Storage:** | Prior and following reconstitution store (in aliquots) at 2 - 8 °C for up to two weeks or -20 °C for longer. For long term storage add a carrier protein (0.1 % HAS or BSA).<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: One year from despatch. |
| **RefSeq:** | NP_000890 |
| **Locus ID:** | 4254 |
| **UniProt ID:** | P21583, A0A024RBC0 |
| **Cytogenetics:** | 12q21.32 |

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| **Synonyms:** | DCUA; DFNA69; FPH2; FPHH; Kitl; KL-1; MGF; SCF; SF; SHEP7; SLF |
| **Summary:** | 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. [provided by RefSeq, Jul 2008] |
| **Protein Families:** | Druggable Genome, Transmembrane |
| **Protein Pathways:** | Cytokine-cytokine receptor interaction, Hematopoietic cell lineage, Melanogenesis, Pathways in cancer |