

## Human Stem Cell Factor (rDNA derived) Reference standard

Cat. No. SCF-116H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | This Standard is the primary biological standard for SCF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Enzyme Unit      | The assigned potency is 1000 Units of biological activity per ampoule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Usage            | No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. Dissolve the total contents of the ampoule in 0.5ml of sterile distilled water. Rinse the ampoule with about 0.4ml of sterile distilled water and make up the total volume to 1.0ml with distilled water. This solution will contain SCF at a concentration of 1000 Units/ml. Use carrier protein where extensive dilution is required.                                                                                                                                                                                                             |
| Notes            | This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts. |
| Stability        | Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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label. Accelerated degradation studies have indicated that this material is suitably stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

#### Storage

For economy of use, it is recommended that the solution be sub divided into several small aliquots and stored at -40°C or below. Avoid repeated thawing/freezing. Unopened ampoules should be stored at -20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

## GENE INFORMATION

**Gene Name** KITLG KIT ligand [ Homo sapiens ];

**Official Symbol** KITLG

**Synonyms** SF; MGF; SCF; FPH2; KL-1; Kitl; SHEP7; kit ligand; c-Kit ligand; steel factor; stem cell factor; mast cell growth factor; familial progressive hyperpigmentation 2

**Gene ID** 4254

**mRNA Refseq** NM\_000899

**Protein Refseq** NP\_000890

**MIM** 184745

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>          | P21583                                                                                                                                                            |
| <b>Chromosome Location</b> | 12q22                                                                                                                                                             |
| <b>Pathway</b>             | Adaptive Immune System, organism-specific biosystem; Constitutive PI3K/AKT Signaling in Cancer, organism-specific biosystem; Disease, organism-specific biosystem |
| <b>Function</b>            | cytokine activity; growth factor activity; protein binding                                                                                                        |

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