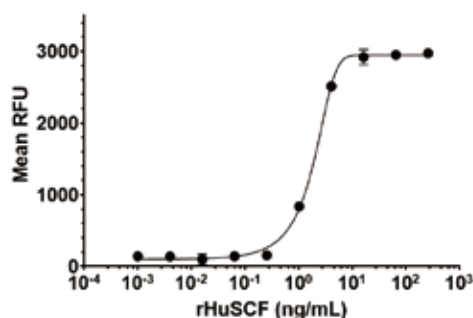


RECOMBINANT HUMAN SCF TAG-FREE GMP

Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder
Gene ID	2323
Description	Stem cell factor (SCF), also known as mast cell growth factor (MGF), or Hematopoietic growth factor KL. SCF is 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. SCF ligand stimulates the proliferation of mast cells. This protein can augment the proliferation of both myeloid and lymphoid hematopoietic progenitors in bone marrow culture. It may act synergistically with other cytokines, probably interleukins SCF/C-kit ligand is the ligand for the tyrosine kinase receptor c-kit, which is expressed on both primitive and mature hematopoietic progenitor cells.
Catalog Number	GE17.1/GE17.2
Unit Size	10µg/50µg
Source	E. coli
Molecular Weight	Approximately 18.5 kDa, a single non-glycosylated polypeptide chain containing 164 amino acids.
AA Sequence	EGICNRVTNNVKDVTKLVANLPKDYMITLKYVPGMDVLPSCWCWSEMVVQLSDSLTDLLDKFSNISEGLSNYSIIDKLVNIVDDLVECVKENSSKDLK KSKFSPEPRLFTPEEFFRIFNRSIDAFKDFVASETSDCVVSSTLSPEKDSRVSVTKPFMLPPVA
Purity (HPLC)	> 98%
Purity (SDS-PAGE)	> 98%
Biological Activity	The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 10 ng/mL, corresponding to a specific activity of > 1.0 × 10 ⁵ IU/mg.
Host Cell DNA Residue	< 0.02 ng/µg of protein tested by DNA Fluorescent Staining method
Host Cell Protein Residue	< 0.5 ng/µg of protein tested by ELISA
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.0
Sterility	Negative
Endotoxin	< 0.01EU/µg as determined by LAL gel-clot method
Mycoplasma	Negative
Reconstitution	Before use this product, please read the direction below carefully. 1. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. 2. Reconstitute in a sterile aqueous buffer to an appropriate concentration. 3. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Stability & Storage	For long term storage, the product should be stored ≤ -20 °C. Please avoid repeated freeze-thaw cycles after reconstitution. 1. At least 24 months from date of receipt, ≤ -20 °C as supplied; 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution; 3. 3 months, -20 to -70 °C under sterile conditions after reconstitution.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended.



DATA

**Bioactivity of Recombinant Human SCF**

The ED₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 10 ng/mL, corresponding to a specific activity of $> 1.0 \times 10^5$ Units/mg.

CONTENTS

Product	Cat. No.	Amount	Storage	Shelf life
Recombinant Human SCF (GMP-Grade)	GE17.1 GE17.2	10µg 50µg	≤-20°C	24 months

LIMITED WARRANTY

BETAGENE™ Genetic and/or its affiliate(s) warrant their products as set forth in the BETAGENE Genetic' General Terms and Conditions of Sale. If you have any questions, please contact our staff at SALES@betagene.com.

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