Genomeditech (Shanghai) Co.,Ltd.
Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

Human SCF Protein; mFc Tag

Product Information

Product Name Human SCF Protein; mFc Tag

Storage temp. Store at \leq -70°C, stable for 6 months after receipt.

Recommend to aliquot the protein into smaller quantities for

optimal storage. Please minimize freeze-thaw cycles.

Catalog# / Size GM-87653RP-100 / 100 μg

GM-87653RP-1000 / 1 mg

Protein Information

Alternative Names KITLG,FPH2,KL-1,Kitl,MGF,SCF,SF,SHEP7,KL

Source Human SCF Protein; mFc Tag (GM-87653RP) is expressed from human 293 cells

(HEK-293). It contains AA Glu 26 - Ala 190 (Accession # P21583-1).

This protein carries a mFc tag at the C-terminus.

Purity > 95% as determined by SDS-PAGE

Endotoxin < 1 EU/μg, determined by LAL gel clotting assay

Predicted Mol Mass 43.9 KDa

Formulation Supplied as a 0.2 μm filtered solution of PBS, pH7.4.

Description SCF protein (Stem Cell Factor), also known as Kit Ligand-1 (KL-1), is a

multifunctional cytokine protein that plays an important role in biological processes such as cell proliferation, differentiation, and survival. The SCF protein primarily exerts its effects by binding to its receptor c-Kit. c-Kit is a tyrosine kinase receptor that is widely expressed in various cell types. The binding of SCF to c-Kit activates multiple signaling pathways, including PI3K/Akt, MAPK, STAT, etc., thereby receptoring cell growth, preliferation, and differentiation.

STAT, etc., thereby regulating cell growth, proliferation, and differentiation.

SCF protein plays a crucial role in the hematopoietic system, particularly in the proliferation and differentiation of stem cells. In diseases, SCF protein also plays a significant role. Aberrant activation of the SCF/c-Kit signaling pathway may lead to the development of certain diseases, such as tumors. Therefore, SCF protein and its receptor c-Kit could potentially serve as therapeutic targets for

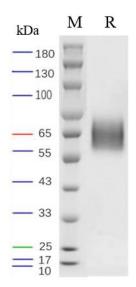
certain diseases.

Genomeditech (Shanghai) Co.,Ltd. Order: 021-68455258/50432826/50432825

Toll-free: 400 627 9288

Email: service@genomeditech.com

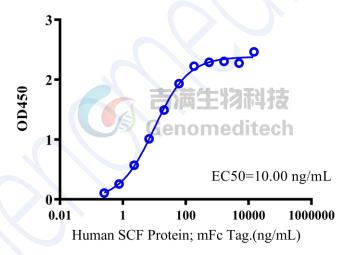
SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA

Human SCF Protein; mFc Tag, ELISA
0.2 μg Human c-Kit(CD117) Protein; His Tag of per well



Human c-Kit(CD117) Protein; His Tag (Catalog # GM-87117RP) was immobilized at 2 μ g/ml (100 μ L/well). Increasing concentrations of Human SCF Protein; mFc Tag (Catalog # GM-87653RP) were added.