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

Toll-free: 400 627 9288

Email: service@genomeditech.com

# Human SCF Protein; His Tag

#### **Product Information**

Product Name Human SCF Protein; His 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-87651RP-100 / 100 μg

GM-87651RP-1000 / 1 mg

#### **Protein Information**

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

Source Human SCF Protein; His Tag (GM-87651RP) is expressed from human 293 cells

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

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

Purity > 90% as determined by SDS-PAGE

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

Predicted Mol Mass 18.9 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 recyleting 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

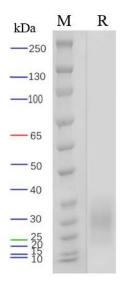
certain diseases.

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### **SDS-PAGE**

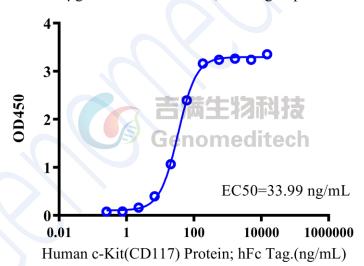


On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## **Bioactivity-ELISA**

## **Bioactivity-ELISA**

0.2 μg Human SCF Protein; His Tag of per well



Human SCF Protein; His Tag (Catalog # GM-87651RP) was immobilized at 2  $\mu$ g/ml (100  $\mu$ L/well). Increasing concentrations of Human c-Kit(CD117) Protein; hFc Tag (Catalog # GM-87119RP) were added.

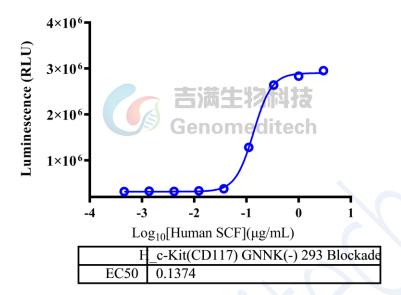
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### **Bioactivity-CELL BASE**

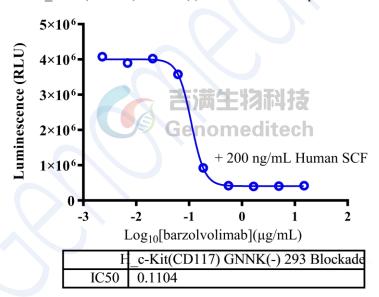
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H\_c-Kit(CD117) GNNK(-) 293 Blockade Reporter Cell Line



Human SCF Protein; His Tag (Catalog # GM-87651RP) was added into H\_c-Kit(CD117) GNNK(-) 293 Blockade Reporter Cell Line (Catalog # GM-C37519) and stimulates SCF/c-Kit signals.

H\_c-Kit(CD117) GNNK(-) 293 Blockade Reporter Cell Line



Neutralization assay shows that the stimulate effect of 200 ng/mL Human SCF Protein; His Tag (Catalog # GM-87651RP) was inhibited by increasing concentration of Anti-c-Kit(CD117) hIgG1 Antibody(barzolvolimab) ( Catalog # GM-86542AB).