

# Human c-Kit(CD117) Protein; hFc Tag

## **Product Information**

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-87119RP-100 / 100 μg
		optimal storage. Please minimize freeze-thaw cycles.
<b>Storage temp.</b> Store at $\leq$ -70°C, stable for 6 months after receipt.		Recommend to aliquot the protein into smaller quantities for
	Storage temp.	Store at $\leq$ -70°C, stable for 6 months after receipt.
Product Name Human c-Kit(CD117) Protein; hFc Tag	rroduct Name	Human C-Kil(CD117) Protein, ince Tag

## **Protein Information**

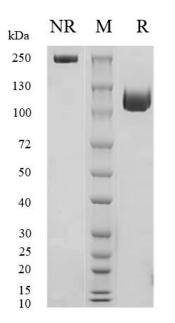
Alternative Names	CD117,SCFR,c-kit,KIT
Source	Human c-Kit(CD117) Protein; hFc Tag (GM-87119RP) is expressed from human
	293 cells (HEK-293). It contains AA Gln 26 - Thr 516 (Accession # P10721-2).
	This protein carries a hFc tag at the C-terminus.
Purity	> 95% as determined by SDS-PAGE
Endotoxin	< 1 EU/µg, determined by LAL gel clotting assay
Predicted Mol Mass	79.4 KDa
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH7.4.
Description	The c-kit protein, also known as CD117, is a transmembrane receptor tyrosine
	kinase and an important cell surface receptor protein. It is encoded by the c-kit
	gene and is a type of stem cell factor receptor. The c-kit protein is widely
	expressed in various cell types, including hematopoietic stem cells, neurons,
	macrophages, and germ cells.
	The c-kit protein plays an important role in cellular biological processes,
	primarily by binding with its ligand stem cell factor (SCF) to regulate cell
	proliferation, differentiation, migration, and survival. When SCF binds to the c-
	kit protein, it activates the tyrosine kinase activity of the c-kit protein, thereby
	activating multiple signaling pathways such as MAPK, PI3K/AKT, and
	JAK/STAT, influencing cell functions.
	In tumors, the c-kit protein also plays a significant role. Many tumor cells express
	the c-kit protein, particularly in gastrointestinal stromal tumors (GIST) and
	chronic myeloid leukemia (CML). Therefore, the c-kit protein has become an
	important marker for tumor diagnosis and treatment. Targeted therapy drugs
	against the c-kit protein, such as Imatinib, have been widely used to treat c-kit-
	positive tumors.

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**SDS-PAGE** 

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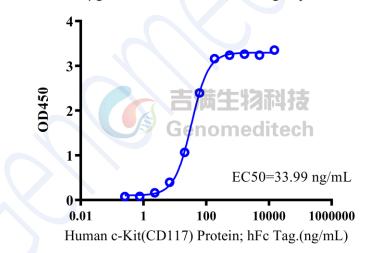


On SDS-PAGE under nun-reducing (NR) condition and reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## **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 µg/ml (100 µL/well). Increasing concentrations of Human c-Kit(CD117) Protein; hFc Tag (Catalog # GM-87119RP) were added.