# Biotinylated Recombinant Human c-Kit/CD117 Protein

## Catalog No.: RP00434B

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### Sequence Information

**Species**
Human

**Gene ID**
3815

**Swiss Prot**
P10721-2

**Tags**
C-His&Avi

**Synonyms**
SCFR; PBT; CD117; ckit; c-kit; EC 2.7.10; EC 2.7.10.1; KIT

### Product Information

**Source**
HEK293 cells

**Purification**
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

**Calculated MW**
58.60 kDa

**Observed MW**
75-105 kDa

**Endotoxin**
< 1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Background

The c-kit proto-oncogen (CD 117) has been shown to be present in several cell types including normal and neoplastic hemopoietic cells. Among normal BM cells, CD117 expression has been found in about half of the CD34 precursors including progenitors committed to the erythroid, granulo-monocytic, and megakaryocytic cell lineages.

### Basic Information

**Description**
Biotinylated Recombinant Human c-Kit/CD117 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gln26-Pro520) of Human CD117 (Accession #P10721-2) fused with a C-His&Avi tag at the C-terminus.

**Activity**

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

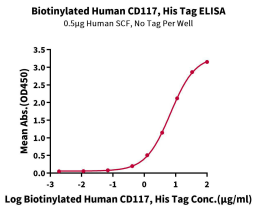
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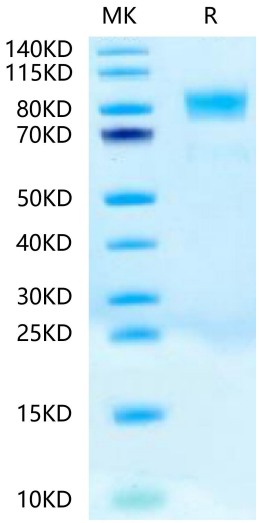


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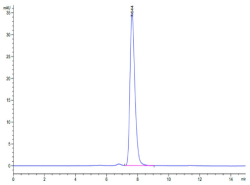
## Validation Data




Immobilized Human SCF, No Tag at 5 μg/mL (100 μL/well) on the plate. Dose response curve for Biotinylated Human CD117, His Tag with the $EC_{50}$ of 6.8 μg/mL determined by ELISA.




Biotinylated Recombinant Human c-Kit/CD117 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human CD117 is greater than 95% as determined by SEC-HPLC.