

# Biotinylated Human CD117 Protein

Cat. No. CD1-HM417B

## Description

<b>Source</b>	Recombinant Biotinylated Human CD117 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Gln26-Pro520.
<b>Accession</b>	P10721-2
<b>Molecular Weight</b>	The protein has a predicted MW of 58.60 kDa. Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

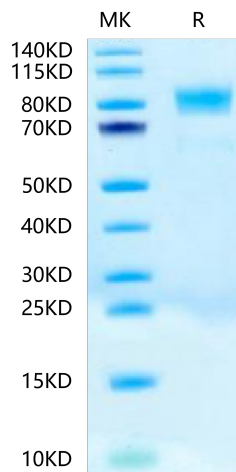
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-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.

## Assay Data

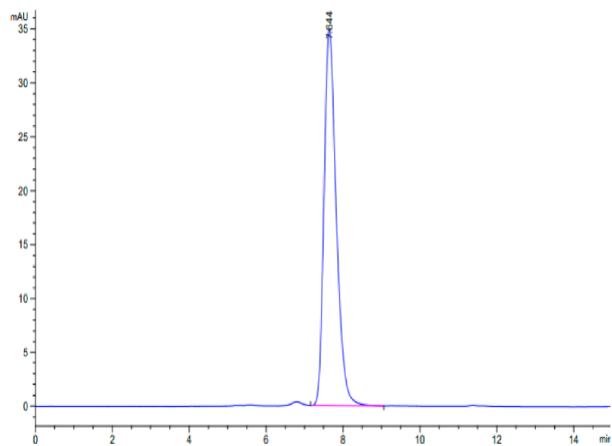
### Tris-Bis PAGE



Biotinylated Human CD117 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



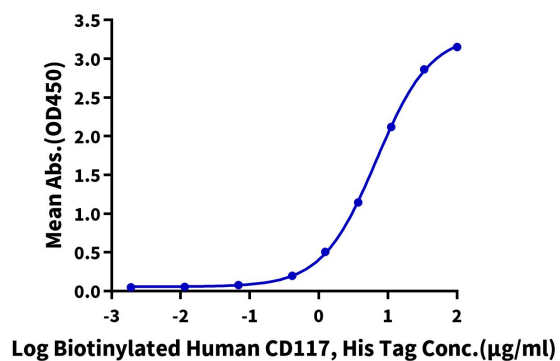
The purity of Biotinylated Human CD117 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human CD117, His Tag ELISA**

0.5µg Human SCF, No Tag Per Well



Immobilized Human SCF, No Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human CD117, His Tag with the EC50 of 6.8µg/ml determined by ELISA.