

Biotinylated Mouse CD117 / c-kit Protein, His,Avitag™ (MALS verified)

Catalog # CD7-M82E3



BIOSYSTEMS
Acro

Surprise Inside!

Synonym

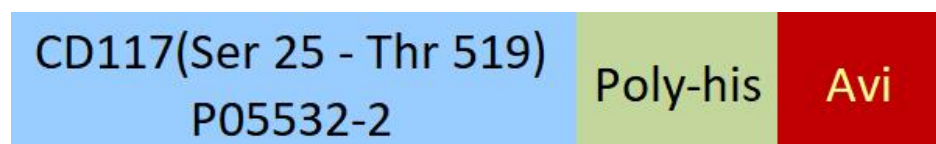
CD117, SCFR, c-Kit, KIT

Source

Biotinylated Mouse CD117 Protein, His,Avitag (CD7-M82E3) is expressed from human 293 cells (HEK293). It contains AA Ser 25 - Thr 519 (Accession # [P05532-2](#)).

Predicted N-terminus: Ser 25

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 58.9 kDa. The protein migrates as 70-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

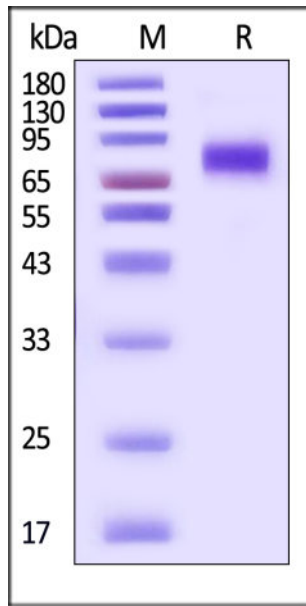
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

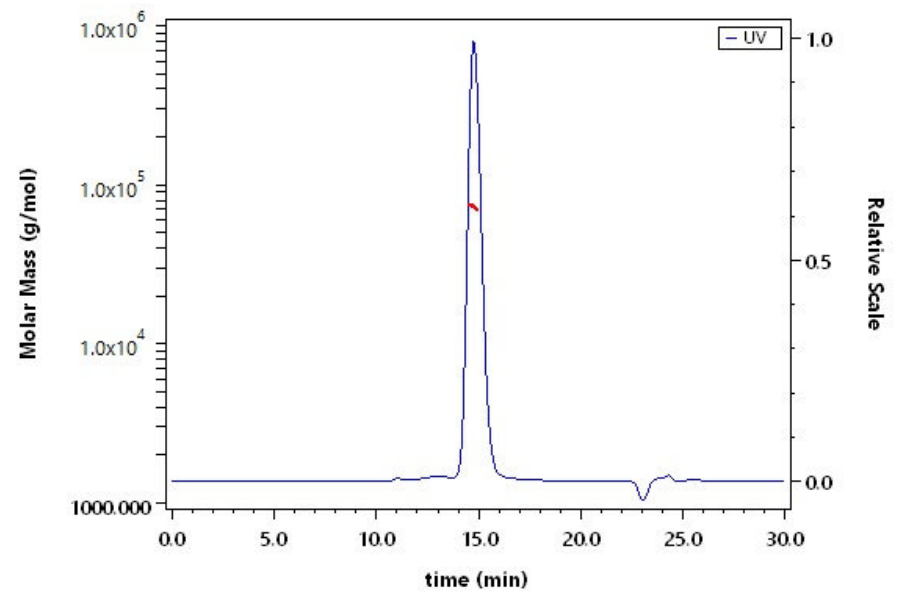
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



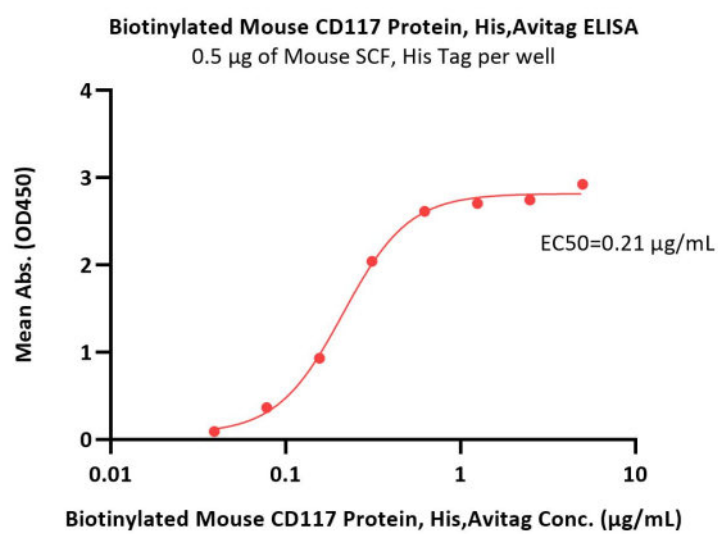
Biotinylated Mouse CD117 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Mouse CD117 Protein, His,Avitag (Cat. No. CD7-M82E3) is more than 90% and the molecular weight of this protein is around 60-85 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse SCF, His Tag (Cat. No. SCF-M5228) at 5 µg/mL (100 µL/well) can bind Biotinylated Mouse CD117 Protein, His,Avitag (Cat. No. CD7-M82E3) with a linear range of 0.039-0.313 µg/mL (QC tested).

Background

The proto-oncogene c-Kit (CD117) is expressed in various cell types, encompassing both normal and neoplastic hematopoietic cells. Within normal bone marrow, CD117 expression is observed in approximately half of the CD34-positive hematopoietic progenitor cells, which are already committed to the erythroid, granulomonocytic, and megakaryocytic cell lineages.

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