

c-Kit/CD117 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	CD117;EC 2.7.10;EC 2.7.10.1;c-kit;KIT;SCFR;PBT;ckit
Protein Construction:	Gln26-Pro520
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P10721-2
Molecular Weight:	58.60 kDa (predicted). Due to glycosylation, the protein migrates to 75-105 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Biotinylated Human CD117, His-Avi Tag at 1 µg/ml (100 µl/well) on the streptavidin precoated plate (5 µg/ml). Dose response curve for Anti-CD117 Antibody, hFc Tag with the EC50 of 4.6 ng/ml determined by ELISA (QC Test). 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 EC50 of 6.8 µg/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

Reference

Escribano L, et al. Expression of the c-kit (CD117) molecule in normal and malignant hematopoiesis. Leuk Lymphoma. 1998 Aug;30(5-6):459-66. doi: 10.3109/10428199809057558. PMID: 9711908.

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