

c-Kit Protein, Human, Recombinant (hFc) V2

General Information

Synonyms:	SCFR;v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog;C-Kit;CD117;PBT
Protein Construction:	Gln26-Pro520
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P10721-2
Molecular Weight:	82.46 kDa (Predicted); 100-130 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human SCF, No Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Human CD117, hFc Tag with the EC50 of 12.4 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in 20 mM PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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.

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