

c-Kit/CD117 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	ckit;PBT;SCFR;KIT;CD117;c-kit
Protein Construction:	Ser25-Pro523
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P05532-2
Molecular Weight:	56.63 kDa (predicted). Due to glycosylation, the protein migrates to 75-100 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Mouse CD117, His Tag captured on CM5 Chip via anti-his antibody can bind Human SCF, No Tag with an affinity constant of 14.02 μ M as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM 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 μ g/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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