

Catalog No.: RP03382LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	3815	P10721

N-Twin strep

KIT; SCFR; CD117; cKIT; p145 c-kit;
Mast/stem cell growth factor receptor Kit

Source	Purification
Baculovirus-Insect Cells	≥ 85% as determined by SDS-PAGE; ≥ 85% as determined by HPLC.

Calculated MW	Observed MW
51.9 kDa	40-50 kDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 50 mM Tris, 200 mM NaCl, 5% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

Please use running water to thaw it quickly.

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Tyrosine-protein kinase KIT (cKIT) also known as CD117 or mast/stem cell growth factor receptor (SCFR) is encoded by the proto-oncogene c-KIT gene. KIT is a receptor tyrosine kinase type III, which binds to stem cell factor, also known as "steel factor" or "c-kit ligand". Like other members of the receptor tyrosine kinase III family, KIT consists of an extracellular domain, a transmembrane domain, a juxtamembrane domain, and an intracellular tyrosine kinase domain. The extracellular domain is composed of five immunoglobulin-like domains, and the ligand stem cell factor binds via the second and third immunoglobulin domains. When KIT binds to stem cell factor (SCF) it forms a dimer that activates its intrinsic tyrosine kinase activity, that in turn phosphorylates and activates signal transduction molecules that propagate the signal in the cell.

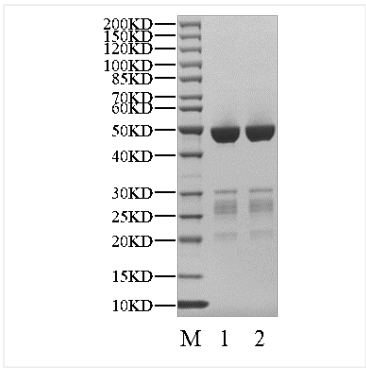
Recombinant Human c-Kit/CD117 Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Thr544-Val976) of Human KIT (Accession #P10721) fused with a N-Twin strep tag.

The activity of KIT is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

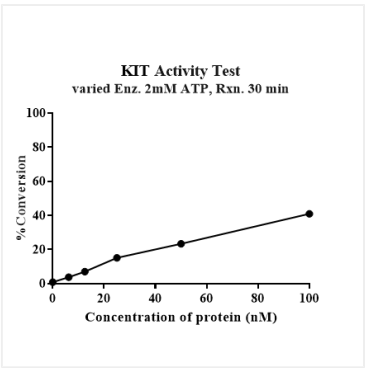
Store at -70°C. This product is stable at $\leq -70^{\circ}\text{C}$ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

Validation Data



Recombinant Human c-Kit/CD117 Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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