

# Recombinant Human c-Kit/CD117 (T670I) Kinase

Catalog No.: RP03325LQ Recombinant

# **Sequence Information**

Species Gene ID Swiss Prot Human 3815 P10721

**Tags** N-His-GST

**Synonyms** 

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

# **Product Information**

Source Purification
Baculovirus-Insect ≥ 85% as
Cells determined by
PAGE > 85% a

determined by SDS-PAGE;≥ 85% as determined by HPLC.

Calculated MW Observed MW

76.7 kDa 70-80 kDa

#### **Endotoxin**

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

## **Formulation**

Supplied as a 0.22  $\mu$ m filtered solution in 50 mM Tris-HCl, 200 mM NaCl, 20% glycerol, 1 mM DTT. (pH 7.5). Contact us for customized product form or formulation.

### Reconstitution

Please use running water to thaw it quickly.

## Contact

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# **Background**

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.

# **Basic Information**

#### **Description**

Recombinant Human c-Kit/CD117 (T670I) Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Thr544-Val976 (T670I)) of Human KIT (Accession #P10721) fused with a N-His-GST tag.

## **Bio-Activity**

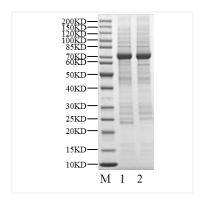
The activity of cKIT is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

## **Storage**

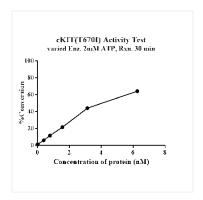
Store at -70°C. This product is stable at  $\leq$  -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

Aliquots below 10  $\mu\text{L}$  are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Recombinant Human c-Kit/CD117 (T670I) Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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