

# Human KIT / c-KIT / CD117 (His Tag) recombinant protein



Catalog Number: 503338

## General Information

### Gene Name Synonym

Piebald trait protein; Proto-oncogene c-Kit; Tyrosine-protein kinase Kit; p145 c-kit; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog

### Protein Construction

A DNA sequence encoding the human KIT isoform 2 (P10721-2) extracellular domain (Met 1-Thr 516) was expressed, with a polyhistidine tag at the C-terminus.

### Organism

Human

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA. Immobilized human KIT at 20 µg/ml (100 µl/well) can bind biotinylated mouse KITL with a linear ranger 1.28-6.4 ng/ml.

### Purity

> 97 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Gln 26

### Molecular Mass

The recombinant human KIT consists of 502 amino acids and predicts a molecular mass of 56.7 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of rhKIT is approximately 75-85 kDa due to glycosylation.

### Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
  2. Please contact us for any concerns or special requirements.

## Usage Guide

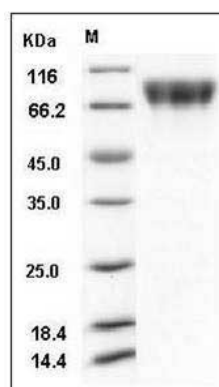
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human c-KIT / CD117 Protein (His Tag) SDS-PAGE