

Recombinant Human KIT Protein, His-tagged

Cat. No. KIT-2365H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KIT Protein (Gln26-Pro524) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Gln26-Pro524
Description	This gene encodes a receptor tyrosine kinase. This gene was initially identified as a homolog of the feline sarcoma viral oncogene v-kit and is often referred to as proto-oncogene c-Kit. The canonical form of this glycosylated transmembrane protein has an N-terminal extracellular region with five immunoglobulin-like domains, a transmembrane region, and an intracellular tyrosine kinase domain at the C-terminus. Upon activation by its cytokine ligand, stem cell factor (SCF), this protein phosphorylates multiple intracellular proteins that play a role in the proliferation, differentiation, migration and apoptosis of many cell types and thereby plays an important role in hematopoiesis, stem cell maintenance, gametogenesis, melanogenesis, and in mast cell development, migration and function. This protein can be a membrane-bound or soluble protein. Mutations in this gene are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Multiple transcript variants encoding different isoforms have been found for this gene.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 59.7 kDa Accurate Molecular Mass: \
Endotoxin	<1.0 EU per 1g (determined by the LAL method).
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

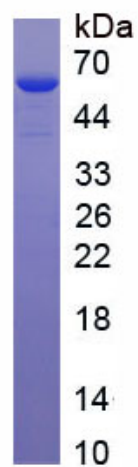
Gene Name	KIT KIT proto-oncogene, receptor tyrosine kinase [Homo sapiens (human)]
Official Symbol	KIT

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Synonyms	KIT; KIT proto-oncogene, receptor tyrosine kinase; PBT; SCFR; C-Kit; CD117; MASTC; mast/stem cell growth factor receptor Kit c-Kit protooncogene p145 c-kit piebald trait protein proto-oncogene c-Kit proto-oncogene tyrosine-protein kinase Kit tyrosine-protein kinase Kit v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene-like protein EC 2.7.10.1
Gene ID	3815
mRNA Refseq	NM_000222
Protein Refseq	NP_000213
MIM	164920
UniProt ID	P10721



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