

Recombinant Rat Kit Protein, His-tagged

Cat. No. Kit-2363R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Kit Protein (Leu591-Ser938) with a N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Leu591-Ser938
Description	Enables protein tyrosine kinase activity. Involved in several processes, including gamete generation; positive regulation of gastro-intestinal system smooth muscle contraction; and protein phosphorylation. Located in acrosomal vesicle; cytoplasmic side of plasma membrane; and external side of plasma membrane. Used to study aplastic anemia and male infertility. Biomarker of acute pancreatitis and gastroschisis. Human ortholog(s) of this gene implicated in several diseases, including acute myeloid leukemia; gastrointestinal stromal tumor; germ cell cancer (multiple); piebaldism; and renal cell carcinoma. Orthologous to human KIT (KIT proto-oncogene, receptor tyrosine kinase).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 42.7 kDa Accurate Molecular Mass: 43 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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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 [Rattus norvegicus (Norway rat)]
Official Symbol	Kit
Synonyms	Kit; KIT proto-oncogene receptor tyrosine kinase; mast/stem cell growth factor receptor Kit Kit oncogene c-kit receptor tyrosine kinase protein kinase v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog EC 2.7.10.1

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Gene ID	64030
mRNA Refseq	NM_022264
Protein Refseq	NP_071600
UniProt ID	Q63116

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