

Recombinant Human KIT, His-tagged

Cat. No. KIT-27174TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 544-976 of Human c-Kit containing a V560G mutation, with N-terminal His tag, expressed in a Baculovirus infected Sf9 cell expression system, 50kDa.
Species	Human
ProteinLength	544-976 a.a.
Description	This gene encodes the human homolog of the proto-oncogene c-kit. C-kit was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. This protein is a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). 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.
Conjugation	HIS
Biological activity	Specific Activity: 115 pmol/min/μg.
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

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**Sequence
Similarities**

Belongs to the protein kinase superfamily. Tyr protein kinase family. CSF-1/PDGF receptor subfamily. Contains 5 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.

GENE INFORMATION
Gene Name

[KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog \[Homo sapiens \]](#)

Official Symbol

[KIT](#)

Synonyms

KIT; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; PBT, piebald trait; mast/stem cell growth factor receptor Kit; C Kit; CD117; SCFR;

Gene ID

[3815](#)

mRNA Refseq

[NM_000222](#)

Protein Refseq

[NP_000213](#)

MIM

[164920](#)

Uniprot ID

[P10721](#)

**Chromosome
Location**

4q11-q12

Pathway

Acute myeloid leukemia, organism-specific biosystem; Acute myeloid leukemia, conserved biosystem; C-MYB transcription factor network, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;

Function

ATP binding; cytokine binding; metal ion binding; nucleotide binding; protein binding;

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