

Recombinant Human KIT, GST-tagged, Active

Cat. No. KIT-256H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human c-KIT (544-end, V654A) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. MW = 73 kDa.
Species	Human
Source	Sf9 Cells
Protein Length	544-end a.a.
Description	c-KIT is a proto-oncogene and a type 3 transmembrane receptor for MGF (mast cell growth factor, also known as stem cell factor). c-KIT was first identified as the cellular homolog of the feline sarcoma viral oncogene v-kit. c-KIT together with its ligand regulates growth and activation of a variety of hemopoietic and non-hemopoietic cells. Mutations in c-KIT are associated with gastrointestinal stromal tumors, mast cell disease, acute myelogenous leukemia, and piebaldism. Recently, deregulation of the KIT receptor TK by the prevalent activation loop mutation D816V has served as a focal point in therapeutic strategies aimed curbing neoplastic mast cell growth.
Sequence	544-end; V654A.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

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GENE INFORMATION

Gene Name	KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [Homo sapiens]
Synonyms	KIT; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; PBT; SCFR; C-Kit; CD117; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog; soluble KIT variant 1; mast/stem cell growth factor receptor; proto-oncogene tyrosine-protein kinase Kit; EC 2.7.10.1
Gene ID	3815
mRNA Refseq	NM_000222
Protein Refseq	NP_000213
MIM	164920
UniProt ID	P10721
Chromosome Location	4q11-q12
Pathway	Acute myeloid leukemia; Cytokine-cytokine receptor interaction; Endocytosis; Hematopoietic cell lineage; Melanogenesis; Pathways in cancer
Function	ATP binding; nucleotide binding; protein binding; receptor signaling protein tyrosine kinase activity; stem cell factor receptor activity; transferase activity

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