

## Active Recombinant Human KIT Mutant (Y823D), GST-tagged

Cat. No. KIT-88H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Product Overview</b> | Recombinant human c-KIT (Y823D) (544-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 544-end a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | c-KIT (Y823D) encodes the ligand-binding chain (alpha) of the gamma interferon receptor which is a heterodimer of IFNGR1 and IFNGR2. c-KIT (Y823D) is a regulator of hematopoietic stem cells during homeostasis and under conditions of infectious stress. A genetic variation in c-KIT (Y823D) is associated with susceptibility to Helicobacter pylori infection. In addition, defects in c-KIT (Y823D) are a cause of mendelian susceptibility to mycobacterial disease, also known as familial disseminated atypical mycobacterial infection. c-KIT (Y823D) is also associated with the clinical outcome of HBV infection in Chinese adults. |
| <b>Form</b>             | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Bio-activity</b>     | The specific activity was determined to be 5 nmol/min/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | ~73 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | >70% by densitometry.                                                                                                                                                                                                                   |
| <b>Applications</b>  | Kinase Assay                                                                                                                                                                                                                            |
| <b>Storage</b>       | Store product at –70oC. 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. |
| <b>Concentration</b> | 0.05 µg/µl                                                                                                                                                                                                                              |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">KIT v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [ Homo sapiens ]</a>                                                                                                                                                                                                                                                                                              |
| <b>Official Symbol</b> | KIT                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | 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; p145 c-kit; proto-oncogene c-Kit; piebald trait protein; soluble KIT variant 1; tyrosine-protein kinase Kit; proto-oncogene tyrosine-protein kinase Kit; v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene-like protein; PBT; C-Kit; |
| <b>Gene ID</b>         | <a href="#">3815</a>                                                                                                                                                                                                                                                                                                                                                                            |
| <b>mRNA Refseq</b>     | <a href="#">NM_000222</a>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>  | <a href="#">NP_000213</a>                                                                                                                                                                                                                                                                                                                                                                       |
| <b>MIM</b>             | <a href="#">164920</a>                                                                                                                                                                                                                                                                                                                                                                          |

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|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; |
| Function            | ATP binding; cytokine binding; metal ion binding; nucleotide binding; protease binding; protein binding; protein homodimerization activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; stem cell factor receptor activity; transmembrane receptor protein tyrosine kinase activity;                               |

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