

## Recombinant Human SRC protein, His-tagged

Cat. No. SRC-29696TH    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SRC fused with His tag at N-terminal was expressed in Insect cells.                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | This gene is highly similar to the v-src gene of Rous sarcoma virus. This proto-oncogene may play a role in the regulation of embryonic development and cell growth. The protein encoded by this gene is a tyrosine-protein kinase whose activity can be inhibited by phosphorylation by c-SRC kinase. Mutations in this gene could be involved in the malignant progression of colon cancer. Two transcript variants encoding the same protein have been found for this gene. |
| <b>Form</b>             | 25 mM Tris-HCl, pH 8.0, 69 mM NaCl, 1.35 mM KCl, 0.025% Tween-20, 125 mM imidazole, 50% glycerol, and 3 mM DTT                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bio-activity</b>     | 205 pmol/min/μg                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | 60.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 85%                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>     | Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.                                                                                                                                                                                                                                                                                                                                                                                      |

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | >6 months at –80 centigrade. Avoid freeze/thaw cycles                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>       | 1.2 mg/ml                                                                                                                                                                                                                                                                                                                                     |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>           | SRC v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian) [ Homo sapiens ]                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>     | SRC                                                                                                                                                                                                                                                                                                                                           |
| <b>Synonyms</b>            | SRC; v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian); SRC1, v src avian sarcoma (Schmidt Ruppin A 2) viral oncogene homolog; proto-oncogene tyrosine-protein kinase Src; ASV; c src; proto-oncogene c-Src; tyrosine kinase pp60c-src; tyrosine-protein kinase SRC-1; protooncogene SRC, Rous sarcoma; SRC1; c-SRC; p60-Src; |
| <b>Gene ID</b>             | 6714                                                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_005417                                                                                                                                                                                                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_005408                                                                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>                 | 190090                                                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>          | P12931                                                                                                                                                                                                                                                                                                                                        |
| <b>Chromosome Location</b> | 20q12-q13                                                                                                                                                                                                                                                                                                                                     |
| <b>Pathway</b>             | ADP signalling through P2Y purinoceptor 1, organism-specific biosystem; Adaptive                                                                                                                                                                                                                                                              |

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Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha-synuclein signaling, organism-specific biosystem;

**Function**

ATP binding; SH2 domain binding; SH3/SH2 adaptor activity; ephrin receptor binding; heme binding; integrin binding; ion channel binding; kinase activity; non-membrane spanning protein tyrosine kinase activity;

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