

## Recombinant Human SRC protein, His-tagged

**Cat. No.** SRC-22H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SRC(1-536aa) fused with His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1-536 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <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>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8.). Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization.                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MGSNKS KPKDASQRRRSLEPAENVHGAGGGAFPASQTPSKPASADGHRGPSAAF<br>APAAAE PKLFGGFNSSDTVTSPQRAGPLAGGVTTFVALYDYESRTETDLSFKKGER<br>LQIVNNT EGDWWLAHSLSTGQTGYIPSNYVAPSDSIQAE EWYFGKITRRESERLLL N<br>AENPRGT FLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLD SGGFYITSRTQFN<br>SLQQLVAYYSKHADGLCHRLTTCPTSKPQTQGLAKDAWEIPRESLRLEV KLGQGC<br>FGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVSEE                                                                                                     |

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PIYIVTEYMSKGSLLDFLKGETGKYLRPLQLVDMASGMAYVERMNYVHRDLRA  
ANILVGENLVCKVADFGLARLIEDNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWS  
FGILLTELTTKGRVPYPGMVNREVLQDQVERGYRMPCPPECPESLHDLMCQCWRKE  
PEERPTFEYLQAFLEDYFTSTEPQYQPGENL

**Purity**

90%, by SDS-PAGE with Coomassie Brilliant Blue staining.

**Storage**

Stability and Storage: Store for up to 12 months at -20 centigrade to -80 centigrade as lyophilized powder.

Storage of Reconstituted Protein: Short-term storage: Store at 2-8 centigrade for two weeks.

Long-term storage: Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.

**Reconstitution**

Reconstitute at 0.25 µg/µl in 200 µl sterile water for short-term storage.

Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage.

If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used).

Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.

## GENE INFORMATION

**Gene Name**

**SRC** SRC proto-oncogene, non-receptor tyrosine kinase [ Homo sapiens ]

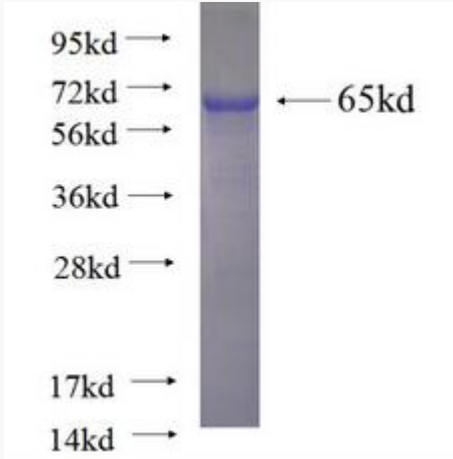
**Official Symbol**

**SRC**

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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                                                                     | ASV; SRC1; THC6; c-SRC; p60-Src; proto-oncogene c-Src; protooncogene SRC, Rous sarcoma; tyrosine kinase pp60c-src; tyrosine-protein kinase SRC-1; v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog |
| <b>Gene ID</b>                                                                      | <a href="#">6714</a>                                                                                                                                                                                              |
| <b>mRNA Refseq</b>                                                                  | <a href="#">NM_005417</a>                                                                                                                                                                                         |
| <b>Protein Refseq</b>                                                               | <a href="#">NP_005408</a>                                                                                                                                                                                         |
| <b>MIM</b>                                                                          | <a href="#">190090</a>                                                                                                                                                                                            |
| <b>UniProt ID</b>                                                                   | <a href="#">P12931</a>                                                                                                                                                                                            |
|  |                                                                                                                                                                                                                   |