

## Recombinant Human c-src tyrosine kinase

Cat. No. CSK-27H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CSRC produced in <i>Sf9 cells</i> is a glycosylated, polypeptide chain having a molecular mass of 60 KD. CSRC is purified by proprietary chromatographic techniques.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	SRC family kinases are involved in transducing growth factor signals for cellular differentiation and proliferation in a variety of cell types. The activity of all Src family kinases (SFKs) is controlled by phosphorylation at their C-terminal 527-tyrosine residue by C-terminal SRC kinase, CSK. The C-terminal SRC kinase (CSK) family of protein tyrosine kinases contains two members: CSK and CSK homologous kinase (CHK). Both phosphorylate and inactivate SRC family kinases. C-terminal SRC kinase (CSK) contains a catalytic domain and a regulatory region, consisting of an SH3 and an SH2 domain.
<b>Physical Appearance</b>	Sterile Filtered clear solution.
<b>Purity</b>	Greater than 95% as determined by SDS-PAGE.
<b>Formulation</b>	C-SRC is supplied at a concentration of 0.29mg/ml in 50mM Tris, pH 7.6, 0.15 M NaCl, 0.27M sucrose, 1mM DTT, 0.1mM EGTA, 0.2mM PMSF, 1mM benzamidine, 5mM NaF, 10mM $\beta$ -glycerol phosphate, 0.1mM sodium vanadate and 0.03% Brij-35.

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**Biological Activity** 750 units/mg. One unit of C-SRC activity is equal to 1 nmol of phosphate transferred to a peptide corresponding to p34cdc2 (6-20) per minute at 30°C with a final ATP concentration of 100  $\mu$ M. Recombinant human active C-SRC also phosphorylates STAT, p34cdc2, gastrin, and cortactin. Please note: Kinase activity may vary depending on the substrate and reaction conditions.

**Storage** Store at 4°C if entire vial will be used within 1-2 weeks. Store frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles.

## GENE INFORMATION

**Gene Name** [CSK c-src tyrosine kinase \[ Homo sapiens \]](#)

**Synonyms** CSK; c-src tyrosine kinase; MGC117393; EC 2.7.10.2; C-SRC kinase ; Protein-tyrosine kinase CYL

**Gene ID** [1445](#)

**mRNA Refseq** [NM\\_001127190](#)

**Protein Refseq** [NP\\_001120662](#)

**MIM** [124095](#)

**UniProt ID** [P41240](#)

**Chromosome Location** 15q23-q25

**Pathway** Chemokine signaling pathway; Epithelial cell signaling in Helicobacter pylori infection; Neurotrophin signaling pathway; Regulation of actin cytoskeleton

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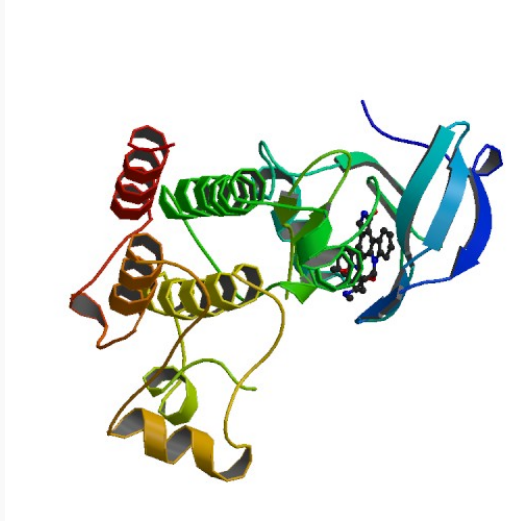
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**Function**

ATP binding; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein C-terminus binding; transferase activity

PDB rendering based on 1byg.



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