

Recombinant Human c-src tyrosine kinase

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Sf9 Cells
Description	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.
Physical Appearance	Sterile Filtered clear solution.
Purity	Greater than 95% as determined by SDS-PAGE.
Formulation	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 β-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 μ 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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Function

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

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