



## RayBiotech, Inc.

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# Certificate of Analysis and Data Sheet Recombinant Human C-SRC

**Catalog No.**  
228-10285

**Source**  
*Sf9* Insect Cells

### **Synonyms:**

Tyrosine-protein kinase CSK, EC 2.7.10.2, C-SRC kinase, Protein-tyrosine kinase CYL, CSK, C-SRC.

### **Introduction:**

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.

### **Description:**

CSRC Human Recombinant produced in *Sf9* cells is a glycosylated, polypeptide chain having a molecular mass of 60 KD.

CSRC is purified by proprietary chromatographic techniques.

### **Source:**

*Sf9* Insect Cells

### **Appearance:**

Sterile Filtered clear solution.

### **Formulation:**

C-SRC is supplied at a concentration of 0.29 mg/ml in 50 mM Tris, pH 7.6, 0.15 M NaCl, 0.27 M sucrose, 1 mM DTT, 0.1 mM EGTA, 0.2 mM PMSF, 1 mM benzamidine, 5 mM NaF, 10 mM  $\beta$ -glycerol phosphate, 0.1 mM sodium vanadate and 0.03% Brij-35.

### **Storage Conditions:**

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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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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.**

### ***Purity:***

Greater than 95% as determined by SDS-PAGE.

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