

Active Recombinant Human SRC, GST-tagged

Cat. No. SRC-191H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Description

Src (p60c-src) is a 60 kDa cytoplasmic tyrosine kinase with functions in the regulation of cell division, cell-matrix adhesion, and cell-cell adhesion. Src-GST family tyrosine kinases participate in signal transduction of different classes of membrane receptors, including receptor tyrosine kinases and G-protein coupled receptors. The SrcGST has been generated by fusing GST N-terminal to human c-Src allowing expression in *E. coli* and purification by affinity chromatography with GSH beads. The preparation is >90% homogenous in SDS-PAGE and has a specific activity of >3000 U/mg (1 U is defined as transfer of 1 pMol phosphate to the substrate peptide AAEEIYGEFEAKKKK per minute at 30°C). The fusion protein has been successfully used to label phosphatase substrates. The GST-Tag facilitates the protein's application in typical GST pull-down assays.

Form Liquid. Supplied in 50 mM Tris-HCl pH 8.0, 100 mM NaCl and 1 mM DTT.

Purity ≥90% by SDS-PAGE.

Application > 650 U/g (1 U is defined as transfer of 1 pMol phosphate to the substrate peptide AAEEIYG-EFEAKKKK per minute at 30°C).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Usage	For in vitro use only.
Storage	Quality guaranteed for 12 months store at -80°C. Avoid freeze / thaw cycles.
GENE INFORMATION	
Gene Name	SRC v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian) [Homo sapiens]
Synonyms	SRC; v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian); ASV; SRC1; c-SRC; p60-Src; proto-oncogene tyrosine-protein kinase SRC; OTTHUMP00000174476; OTTHUMP00000174477; tyrosine kinase pp60c-src; tyrosine-protein kinase SRC-1; protooncogene SRC, Rous sarcoma; EC 2.7.10.2; pp60c-src; v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogenehomolog
Gene ID	6714
mRNA Refseq	NM_005417
Protein Refseq	NP_005408
MIM	190090
UniProt ID	P12931
Chromosome Location	20q12-q13
Pathway	Adherens junction; Endocytosis; Epithelial cell signaling in Helicobacter pylori infection; ErbB signaling pathway; Focal adhesion; Gap junction; GnRH signaling pathway; Tight junction; VEGF signaling pathway

Function

ATP binding; SH2 domain binding; SH3/SH2 adaptor activity; non-membrane spanning protein tyrosine kinase activity; nucleotide binding; protein binding; transferase activity

PDB rendering based on 1a07.



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