

# Human SRC Kinase / Proto-oncogene c-Src Protein (His & GST Tag)

Catalog Number: 10755-H20B



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

ASV; c-SRC; p60-Src; SRC1

### Protein Construction:

A DNA sequence encoding the human SRC (P12931-1) (Met 1-Leu 536) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.

**Source:** Human

**Expression Host:** Baculovirus-Insect Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

### Bio Activity:

The specific activity was determined to be >80 nmol/min/mg using Poly(Glu:Tyr) 4:1 as substrate.

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Met

### Molecular Mass:

The recombinant human SRC/GST chimera consists of 773 amino acids and has a calculated molecular mass of 87.7 KDa. It migrates as an approximately 81 KDa band in SDS-PAGE under non-reduced conditions.

### Formulation:

Supplied as sterile 50mM Tris, 100mM NaCl, pH 8.0, 20% gly, 0.3mM DTT

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

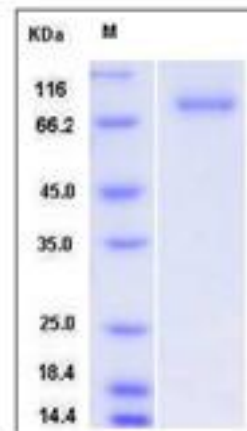
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Proto-oncogene tyrosine-protein kinase SRC is a hydrophobic protein belonging to the SRC family kinase including nine members that is a family of non-receptor tyrosine kinases. SRC protein may exist in different forms: C-SRC and V-SRC. C-SRC is only activated under certain circumstances where it is required such as growth factor signaling, while V-SRC is a constitutively active as opposed to normal SRC (C-SRC). Thus, V-SRC is an instructive example of an oncogene protein kinase whereas C-SRC is a proto-oncogene protein kinase. Inhibition of SRC with NR2A tyrosine phosphorylation mediated by PSD-95 may contribute to the lithium-induced downregulation of NMDA receptor function and provide neuroprotection against excitotoxicity.

## References

1. Juan Ma. et al., 2003, Neuroscience Letters. 348 (3): 185-189.
2. Czernilofsky AP. et al., 1980, Nature. 287: 198-203.
3. Beischlag TV. et al., 2002, Molecular and cellular biology. 22 (12): 4319-33.

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For US Customer: Fax: 267-657-0217 ● Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 ● Tel:+86-400-890-9989 ● <http://www.sinobiological.com>