# Data Sheet (Cat.No.TMPY-04384)

TargetMol

## Src Protein, Human, Recombinant (His & GST)

### General Information

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|---|---|
| Synonyms: | c-SRC;p60-Src;ASV;SRC1;SRC proto-oncogene, non-receptor tyrosine kinase |
| 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. Predicted N terminal: Met |
| Species: | Human |
| Expression Host: | Baculovirus Insect Cells |
| Accession: | P12931-1 |
| Molecular Weight: | 87.7 kDa (predicted); 81 kDa (non-reducing conditions) |

### QC Testing

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|---|---|
| Biological Activity: | The specific activity was determined to be >80 nmol/min/mg using Poly(Glu:Tyr) 4:1 as substrate. |
| Purity: | > 90 % as determined by SDS-PAGE |
| Endotoxin: | < 1.0 EU/μg of the protein as determined by the LAL method. |
| Formulation: | Supplied as sterile 50 mM Tris, 100 mM NaCl, pH 8.0, 20% gly, 0.3 mM DTT. |

### Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store the product under sterile conditions at -20°C to -80°C. Samples are stable for up to 12 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

### Protein Background

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 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.

Reference

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



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