



Recombinant Protein Technical Manual

Recombinant Human SRC Kinase/c-SRC Protein (His & GST Tag)(Active)

RPES1553

Product Data:

Product SKU: RPES1553

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: P12931

Protein Information:

Molecular Mass: 87.7 kDa

AP Molecular Mass: 81 kDa

Tag: N-His & GST

Bio-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 reducing SDS-PAGE.

Endotoxin: <1.0 EU per µg as determined by the LAL method.

Storage: Store at $<-20^{\circ}\text{C}$, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at $<-20^{\circ}\text{C}$.

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

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: ASV;c-SRC;p60-Src;SRC1

Immunogen Information:

Sequence: Met 1-Leu 536

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 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.