



Recombinant Protein Technical Manual

Recombinant Mouse SRC Kinase/c-SRC Protein (His & GST Tag)(Active) RPES1995

Product Data:

Product SKU: RPES1995

Size: 20µg

Species: Mouse

Expression host: Baculovirus-Insect Cells

Uniprot: NP_001020566.111

Protein Information:

Molecular Mass: 87.7 kDa

AP Molecular Mass: 80 kDa

Tag: N-His-GST

Bio-activity: 1. The specific activity was determined to be >80 nmol/min/mg using poly [Glu, Tyr] 4:1 as substrate. 2. Measured by its binding ability in a functional ELISA. Immobilized recombinant Mouse SRC at 2 µg/ml (100 µl/well) can bind biotinylated human PTPRA (aa

Purity: $>95\%$ as determined by SDS-PAGE

Endotoxin: <1.0 EU per µg of the protein 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 20mM Tris, 500mM NaCl, 10% gly, pH 8.0

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

Application: Functional ELISA

Synonyms: AW259666;pp60c-src

Immunogen Information:

Sequence: Met 1-Leu 535

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.