

Recombinant Mouse Yes1 Protein, Myc/DDK-tagged

Cat. No. Yes1-7032M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse YES proto-oncogene 1, Src family tyrosine kinase (Yes1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Non-receptor protein tyrosine kinase that is involved in the regulation of cell growth and survival, apoptosis, cell-cell adhesion, cytoskeleton remodeling, and differentiation. Stimulation by receptor tyrosine kinases (RTKs) including EGFR, PDGFR, CSF1R and FGFR leads to recruitment of YES1 to the phosphorylated receptor, and activation and phosphorylation of downstream substrates. Upon EGFR activation, promotes the phosphorylation of PARD3 to favor epithelial tight junction assembly. Participates in the phosphorylation of specific junctional components such as CTNND1 by stimulating the FYN and FER tyrosine kinases at cell-cell contacts. Upon T-cell stimulation by CXCL12, phosphorylates collapsin response mediator protein 2/DPYSL2 and induces T-cell migration. Participates in CD95L/FASLG signaling pathway and mediates AKT-mediated cell migration. Plays a role in cell cycle progression by phosphorylating the cyclin dependent kinase 4/CDK4 thus regulating the G1 phase. Also involved in G2/M progression and cytokinesis.
Molecular Mass	61.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Yes1 YES proto-oncogene 1, Src family tyrosine kinase [Mus musculus (house mouse)]
Official Symbol	Yes1
Synonyms	YES1; Yamaguchi sarcoma viral (v-yes) oncogene homolog 1; tyrosine-protein kinase Yes; proto-oncogene c-Yes; viral oncogene yes homolog; proto-oncogene tyrosine-protein kinase Yes; Yes; p61-Yes
Gene ID	22612
mRNA Refseq	NM_009535
Protein Refseq	NP_033561
UniProt ID	Q04736

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