

Recombinant Mouse Pin1 Protein, Myc/DDK-tagged

Cat. No. Pin1-4871M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (Pin1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Peptidyl-prolyl cis/trans isomerase (PPIase) that binds to and isomerizes specific phosphorylated Ser/Thr-Pro (pSer/Thr-Pro) motifs. By inducing conformational changes in a subset of phosphorylated proteins, acts as a molecular switch in multiple cellular processes. Displays a preference for an acidic residue N-terminal to the isomerized proline bond. Regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Down-regulates kinase activity of BTK. Can transactivate multiple oncogenes and induce centrosome amplification, chromosome instability and cell transformation. Required for the efficient dephosphorylation and recycling of RAF1 after mitogen activation. Binds and targets PML and BCL6 for degradation in a phosphorylation-dependent manner Acts as a regulator of JNK cascade by binding to phosphorylated FBXW7, disrupting FBXW7 dimerization and promoting FBXW7 autoubiquitination and degradation: degradation of FBXW7 leads to subsequent stabilization of JUN. May facilitate the ubiquitination and proteasomal degradation of RBBP8/CtIP through CUL3/KLHL15 E3 ubiquitin-protein ligase complex, hence favors DNA double-strand repair through error-prone non-homologous end joining (NHEJ) over error-free, RBBP8-mediated homologous

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	recombination (HR).
Molecular Mass	18.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
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	Pin1 protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 [Mus musculus (house mouse)]
Official Symbol	Pin1
Synonyms	PIN1; protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1; peptidyl-prolyl cis-trans isomerase NIMA-interacting 1; PPlase Pin1; rotamase Pin1; peptidyl-prolyl cis-trans isomerase Pin1; D9Bwg1161e; 0610025L01Rik
Gene ID	23988
mRNA Refseq	NM_023371
Protein Refseq	NP_075860

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UniProt ID

Q9QUR7

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