

Recombinant Human PIN1, T7-tagged

Cat. No. PIN1-2901H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanPIN1 (1-163 aa) is expressed in E.Coli with a T7 tag at N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-163 a.a.
Description	Human Pin 1 is a peptidyl-prolyl cis/trans isomerase (PPIase) that interacts with NIMA and essential for cell cycle regulation Pin1 is nuclear PPIase containing a WW protein interaction domain, and is structurally and functionally related to Ess1/Ptf1, an essential protein in budding yeast. PPIase activity is necessary for Ess1/Pin1 function in yeast. Pin1 is thus an essential PPIase that regulates mitosis presumably by interacting with NIMA and attenuating its mitosis-promoting activity. Substrates of Pin1 include the mitotic regulators (Cdc25 phosphatase and NIMA, PLK I, Wee, and Myt1 kinases), several transcription factors like Catenin, c-Jun, and the tumor suppressor protein p53, and some specific proteins like the RNA Pol II, the cytoskeleton protein tau, and the G1/S protein Cyclin D1.
MW	18243 Da.
Purity	90%.
Formulation	10 mM Tris. pH 8.0. 0.1% Triton X-100.0.002% NaN3.

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Application MS. SDS.

GENE INFORMATION

Gene ID 5300

mRNA Refseq NM_000143

Protein Refseq NP_000134

MIM 136850

UniProt ID P07954

Chromosome Location 1q42.1

Function fumarate hydratase activity, fumarate hydratase activity, lyase activity

PDB rendering based on 1f8a.



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