BioVision

12/12

Human Recombinant PIN1

CATALOG #:	6304-100	100 µg
ALTERNATE NAMES:	Protein (peptidyl-prolyl cis/trans isomerase) NIMA- interacting 1, NIMA-interacting protein 1, DOD, UBL5, Rotamase Pin1, PPIase Pin1.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	18.2 kDa (163 aa), confirmed by MALDI-TOF	
ENDOTOXIN LEVEL:	< 1.0 EU per 1 µ method)	ig of protein (determined by LAL
FORMULATION:	1 mg/ml solution in 20 mM Tris-HCl buffer (pH 7.5) containing 100 mM NaCl, 5 mM DTT, 20% glycerol.	

STORAGE CONDITIONS:

Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at - 20°C or -70°C. Avoid repeated freezing and thawing cycles.

DESCRIPTION:

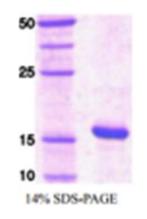
Human Pin 1 is a peptidyl-prolyl cis/trans isomerase (PPIase) that interacts with NIMA and essential for cell cycle regulation Pin1 is nuclear PPIase containing a WW protein interaction domain, and is structurally and functionally related to Ess1/Ptf1, an essential protein in budding yeast. PPIase activity 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 β -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.

AMINO ACID SEQUENCE:

MADEEKLPPG WEKRMSRSSG RVYYFNHITN ASQWERPSGN SSSGGKNGQG EPARVRCSHL LVKHSQSRRP SSWRQEKITR TKEEALELIN GYIQKIKSGE EDFESLASQF SDCSSAKARG DLGAFSRGQM QKPFEDASFA LRTGEMSGPV FTDSGIHIIL RTE

BIOLOGICAL ACTIVITY:

> 330 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1 µmole of Suc-AAFP-pNA per minute at 25°C in Tris HCl pH 8.0 using chymotrypsin.



Human Recombinant PIN1

FOR RESEARCH USE ONLY! Not to be used in humans.

RELATED PRODUCTS:

- Myt1L Antibody (Cat. No. 5304-100)
- PTP1B Antibody (Cat. No. 3171-100)
- PTP1B Antibody (Cat. No. 3174-100)
- PTP1B Antibody (Clone 107AT531) (Cat. No. 3122-100)
- Phosphoseek[™] PTP1B Assay kit (Cat. No. K707-400)

