

Peptidyl-Prolyl Cis/Trans Isomerase NIMA-Interacting 1 Active Protein | PIN1 active protein

Recombinant Human Peptidyl-Prolyl Cis/Trans Isomerase NIMA-Interacting 1

CATALOG # AAA38283	HOST E Coli
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PRODUCT SYNONYMS

Peptidyl-Prolyl Cis/Trans Isomerase NIMA-Interacting 1; Recombinant Human Peptidyl-Prolyl Cis/Trans Isomerase NIMA-Interacting 1; PIN1 Human; Peptidyl-Prolyl Cis/Trans Isomerase NIMA-Interacting 1 Human Recombinant; Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1; EC 5.2.1.8; Rotamase Pin1; PPIase Pin1; DOD; UBL5; PIN1; PPIase; PIN1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein containing 20mM Tris-HCl buffer (pH7.5) 0.1M NaCl, 5mM DTT & 20% Glycerol. Sterile filtered colorless solution.
Concentration	1mg/ml (varies by lot)
Sequence	MADEEKLP PG WEKRMSRSSG RYVYFNHITN ASQWERPSGN SSSGGKNGQG EPARVRCSHL LVKHSQSRRP SSWRQEKITR TKEEALELIN GYIQIKISGE EDFESLASQF SDCSSAKARG DLGAFSRGQM QKPFEDASFA LRTGEMSGPV FTDGSIHIL RTE
Sequence Length	163
Biological Activity	Specific activity is > 330 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25C in Tris-Hcl pH8.0 using chymotrypsin.
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for PIN1 active protein	Description: PPIase Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 163 amino acids & having a molecular mass of 18.2 kDa. The PIN1 is purified by proprietary chromatographic techniques. Introduction: 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 b-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.
Product Categories/Family for PIN1 active protein	Enzymes; Cyclophilin

NCBI AND UNIPROT INFORMATION

NCBI GI #	5453898
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NCBI GeneID	5300
NCBI Accession #	NP_006212.1
NCBI GenBank Nucleotide #	NM_006221.3
UniProt Accession #	Q13526; Q53X75; A8K4V9
Molecular Weight	18,243 Da
NCBI Official Full Name	peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
UniProt Protein Name	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1
UniProt Gene Name	PIN1
UniProt Synonym Gene Names	PPIase Pin1
UniProt Entry Name	PIN1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-pin1-active-protein/peptidyl-prolyl-cis-trans-isomerase-nima-interacting-1/38283>