

Active Recombinant Human PIN4 protein, His-tagged

Cat. No. PIN4-974H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PIN4(1-156aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-156 a.a.
Description	PIN4, also known as Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4, is peptidyl-prolyl cis/trans isomerase (PPIase) that interacts with NIMA and is essential for cell cycle regulation. There are two different isoforms which are PAR14 and PAR17. PIN4/PAR17 was imported into mitochondria in a time and membrane potential-dependent manner, where it reached the mitochondrial matrix. Moreover, Pin4 protein was shown to bind to double-stranded DNA under physiological salt conditions.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT, 0.1mM PMSF
Bio-activity	Specific activity is >300 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.
Molecular Mass	18.8 kDa (176aa), confirmed by MALDI-TOF

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AA Sequence	MGSSHHHHHH SSGLVPRGSHEKHGKIMEAM EKLKSGMRFN EVAAQYSEDK ARQGGDLGWM TRGSMVGPFQ EAAFALPVSG MDKPVFTDPP VKTKFGYHII MVEGRKMMPMAGLLKGL VRQLERFSVQ QQASKMPPKG KSGSGKAGKG GAASGSDSAD KKAQGPKG GGG NAVKVRHIL
Purity	>85% by SDS - PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	PIN4 protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin) [Homo sapiens]
Official Symbol	PIN4
Synonyms	PIN4; protein (peptidylprolyl cis/trans isomerase) NIMA-interacting, 4 (parvulin); protein (peptidyl prolyl cis/trans isomerase) NIMA interacting, 4 (parvulin); peptidyl-prolyl cis-trans isomerase NIMA-interacting 4; EPVH; PAR14; PAR17; hEPVH; hPar14; hPar17; PPlase PIN4; parvulin-14; parvulin-17; rotamase PIN4; eukaryotic parvulin homolog; peptidyl-prolyl cis-trans isomerase Pin4; peptidyl-prolyl cis/trans isomerase EPVH; MGC138486;
Gene ID	5303
mRNA Refseq	NM_001170747

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Protein Refseq	NP_001164218
MIM	300252
UniProt ID	Q9Y237
Chromosome Location	Xq13.1
Function	DNA binding; bent DNA binding; double-stranded DNA binding; isomerase activity; peptidyl-prolyl cis-trans isomerase activity;

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