

Product datasheet for **AR09938PU-L**

PIN4 (1-156, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	PIN4 (1-156, His-tag) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MPMAGLLKGL VRQLERFSVQ QQASKMPPKG KSGSGKAGKG GAASGSDSAD KKAQGPKGGG NAVKVRHILC EKHGKIMEAM EKLKSGMRFN EVAAQYSEDK ARQGGDLGWM TRGSMVGPFFQ EAAFALPVSG MDKPVFTDPP VKTKFGYHII MVEGRK
Tag:	His-tag
Predicted MW:	18.8 kDa
Concentration:	lot specific
Purity:	>85%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1 mM, DTT, 0.1 mM PMSF
Bioactivity:	Specific: > 300 nmoles/min/mg, defined as the amount of enzyme that cleaves 1 umole of suc-AAPF-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin.
Preparation:	Liquid purified protein
Applications:	Protocol: Activity Assay 1. Prepare 170 ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-HCl, pH 8.0, and 20 nM chymotrypsin. 2. Add 10 ul of recombinant PIN4 protein with 1 ug in assay buffer. 3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer. 4. Add 20 ul pre-chilled 5 mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460 mM LiCl to a concentration of 3 mM) 5. Record the increase in A405 nm for 30 minutes at 25°C.
Protein Description:	Recombinant human PIN4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.



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Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001164218
Locus ID:	5303
UniProt ID:	Q9Y237
Cytogenetics:	Xq13.1
Synonyms:	EPVH; PAR14; PAR17
Summary:	This gene encodes a member of the parvulin subfamily of the peptidyl-prolyl cis/trans isomerase protein family. The encoded protein catalyzes the isomerization of peptidylprolyl bonds, and may play a role in the cell cycle, chromatin remodeling, and/or ribosome biogenesis. The encoded protein may play an additional role in the mitochondria. [provided by RefSeq, Dec 2009]

Product images: