Recombinant Human PPIA protein

Cat. No. PPIA-26334H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PPIA (1-165aa) without tag was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-165
Description	This gene encodes a member of the peptidyl-prolyl cis-trans isomerase (PPIase) family. PPIases catalyze the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerate the folding of proteins. The encoded protein is a cyclosporin binding-protein and may play a role in cyclosporin A-mediated immunosuppression. The protein can also interact with several HIV proteins, including p55 gag, Vpr, and capsid protein, and has been shown to be necessary for the formation of infectious HIV virions. Multiple pseudogenes that map to different chromosomes have been reported.
Source	E. coli
Species	Human
Form	Liquid
Bio-activity	Specific activity is > 650 nmol/min/mg, and is defined as the amount of enzyme that

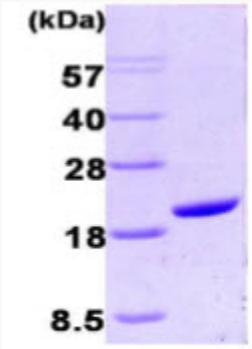
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	cleaves 1nmole of suc-AAFP-PNA per minute at 37 centigrade in Tris-HCl pH 8.0 using chymotrypsin.
Molecular Mass	20 kDa
AA Sequence	MGSSHHHHHHSSGLVPRGSHMVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENF RALSTGEKGFGYKGSCFHRIIPGFMCQGGDFTRHNGTGGKSIYGEKFEDENFILKHT GPGILSMANAGPNTNGSQFFICTAKTEWLDGKHVVFGKVKEGMNIVEAMERFGSRN GKTSKKITIADCGQLE
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at 2-8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/mL (determined by Bradford assay)
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 20mM NaCl, 0.5mM DTT, 10% glycerol

GENE INFORMATION

Gene Name	PPIA peptidylprolyl isomerase A [Homo sapiens (human)]
Official Symbol	PPIA
Synonyms	PPIA; peptidylprolyl isomerase A; CYPA; CYPH; HEL-S-69p; peptidyl-prolyl cis-trans isomerase A; PPIase A; T cell cyclophilin; cyclosporin A-binding protein; epididymis

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	secretory sperm binding protein Li 69p; peptidylprolyl isomerase A (cyclophilin A); rotamase A; EC 5.2.1.8
Gene ID	5478
mRNA Refseq	NM_021130
Protein Refseq	NP_066953
MIM	123840
UniProt ID	P62937
SDS-PAGE	 15% SDS-PAGE (3ug) 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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