

Active Recombinant Full Length Human PPIA

Cat. No. PPIA-26337TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human Cyclophilin A produced in <i>Saccharomyces cerevisiae</i> ; amino acids 1-165; 165 amino acids, 18kDa.
Species	Human
Source	<i>S.Cerevisiae</i>
ProteinLength	1-165 a.a.
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.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MVNPTVFFDI AVDGEPLGRV SFELFADKVP KTAENFRALS TGEKGFGYKG SCFHRIIPGF MCQGGDFTRH NGTGGKSIYG EKFEDEFIL KHTGPGILSM ANAGPNTNGS QFFICTAKTE WLDGKHVVFG KVKEGMNIVE AMERFGSRNG KTSKKITIAD CGQLE
Sequence Similarities	Belongs to the cyclophilin-type PPIase family. PPIase A subfamily. Contains 1 PPIase cyclophilin-type domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	PPIA peptidylprolyl isomerase A (cyclophilin A) [Homo sapiens]
Official Symbol	PPIA
Synonyms	PPIA; peptidylprolyl isomerase A (cyclophilin A); peptidyl-prolyl cis-trans isomerase A; CYPA;
Gene ID	5478
mRNA Refseq	NM_021130
Protein Refseq	NP_066953
MIM	123840
Uniprot ID	P62937

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Chromosome Location	7p13
Pathway	APOBEC3G mediated resistance to HIV-1 infection, organism-specific biosystem; Basigin interactions, organism-specific biosystem; Binding and entry of HIV virion, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Early Phase of HIV Life Cycle, organism-specific biosystem;
Function	isomerase activity; peptide binding; peptidyl-prolyl cis-trans isomerase activity; protein binding; unfolded protein binding;

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