

Active Recombinant Human PPIA, His tagged

Cat. No. PPIA-8311H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Cyclophilin A Human Recombinant His tag protein produced in E.coli is a single, non-glycosylated, polypeptide chain containing 185 amino acids and having a molecular mass of 20 kDa. PPIase-A is purified by chromatographic techniques.
Species	Human
Source	E.coli
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	1 mg/ml solution containing 20 mM Tris 8.0, 20 mM NaCl, 0.5mM DTT and 10% glycerol.
Bio-activity	Specific activity is 200 nmoles/min/ug, and is defined as the amount of enzyme that cleave 1umole of suc-AAFP-pNA per minute at 1C in Tris-Hcl pH8.0 using chymotrypsin.
AA Sequence	MGSSHHHHHH SSGLVPRGSH MVNPTVFFDI AVDGEPLGRV SFELFADKVP

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KTAENFRALSTGEKGFYKG SCFHRIIPGF MCQGGDFTRH NGTGGKSIYG
 EKFDENFIL KHTGPGILSMANAGPNTNGS QFFICTAKTE WLDGKHVVFG
 KVKEGMNIVE AMERFGSRNG KTSKKITIADCGQLE.

Purity Greater than 95.0% as determined by RP-HPLC and analysis by SDS-PAGE

Notes For research use only.

Storage PPIase-A Human Recombinant although stable at 4 °C for weeks, should be stored desiccated below -18 °C. Please prevent freeze/thaw cycles.

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; PPIase A; rotamase A; cyclophilin; T cell cyclophilin; cyclosporin A-binding protein; CYPH; MGC12404; MGC23397; MGC117158;

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; Disease, organism-specific biosystem; Early Phase of HIV Life Cycle, organism-specific biosystem; HIV Infection, organism-specific biosystem;
Function	isomerase activity; peptide binding; peptidyl-prolyl cis-trans isomerase activity; peptidyl-prolyl cis-trans isomerase activity; protein binding; unfolded protein binding; virion binding;

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