

## Recombinant Human PPIA Protein

<b>Catalog No</b>	RP00016	<b>Category</b>	Protein
<b>Description</b>	Recombinant Human PPIA Protein is produced by <i>E. coli</i> expression system. The target protein is expressed with sequence (Met1-Glu165) of human PPIA (Accession #NP_066953.1).		
<b>Bio-Activity</b>	Measured by its ability to inhibit calcineurin phosphatase activity in the presence of Cyclosporin A. The IC <sub>50</sub> for inhibition of calcineurin activity is <300 nM.		

### Sequence Information

<b>Species</b>	Human	<b>Gene ID</b>	5478
<b>Tags</b>	No tag	<b>Swiss Prot</b>	P62937
<b>Synonyms</b>	CYPA;CYPH;HEL-S-69p		
<b>AA Sequence</b>	MVNPTVFFDIAVDGEPLGRVSFELFADKVPKTAENFRALSTGEKGFYKGSFCFHRIIPGF MCQGGDFTRHNGTGGKSIYGEKFEFENFILKHTGPGILSMANAGPNTNGSQFFICTAKTE WLDGKHVVFGKVKEGMNIVEAMERFGSRNGKTSKKITIADCGQLE		

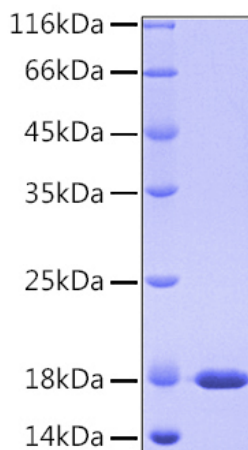
### Product information

<b>Source</b>	<i>E. coli</i>
<b>Purity</b>	> 97% by SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU/μg of the protein by LAL method.
<b>Formulation</b>	Lyophilized from a 0.22 μm filtered solution of 50 mM Tris, 150mM NaCl, pH 8.0.
<b>Reconstitution</b>	Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.
<b>Storage</b>	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. <b>Avoid repeated freeze/thaw cycles.</b>

### Background

This protein is 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 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.

### SDS-PAGE



### Bioactivity

Recombinant Human PPIA was determined by SDS-PAGE under reducing conditions with Coomassie Blue, showing a band at 18 kDa.