

# Recombinant mouse Cyclophilin A/PPIA protein

Catalog Number: ATGP2981

## PRODUCT INFORMATION

---

### Expression system

E.coli

### Domain

1-164aa

### UniProt No.

P17742

### NCBI Accession No.

NP\_032933

### Alternative Names

Peptidyl-prolyl cis-trans isomerase A, PPIase A, Cyclophilin A, Cyclosporin A-binding protein, Rotamase A, SP18

## PRODUCT SPECIFICATION

---

### Molecular Weight

20.4 kDa (187aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 1mM DTT

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

ppiA also known as Peptidyl-prolyl cis-trans isomerase A. This is an enzyme found in both prokaryotes and eukaryotes that interconverts the cis and trans isomers of peptide bonds with the amino acid proline. Proline has an unusually conformationally restrained peptide bond due to its cyclic structure with its side chain bonded to its secondary amine nitrogen. Most amino acids have a strong energetic preference for the trans peptide bond conformation due to steric hindrance, but proline's unusual structure stabilizes the cis form so that both isomers are populated under biologically relevant conditions. Recombinant mouse ppiA, fused to His-tag at N-terminus,

## Recombinant mouse Cyclophilin A/PPIA protein

Catalog Number: ATGP2981

was expressed in E. coli and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSMVNPTVF FDITADDEPL GRVSFELFAD KVPKTAENFR ALSTGEKGFY YKGSSFHRII  
PGFMCQGGDF TRHNGTGGRS IYGEKFEDEN FILKHTGPGI LSMANAGPNT NGSQFFICTA KTEWLDGKHV VFGKVKEGMN  
IVEAMERFGS RNGKTSKKIT ISDCGQL

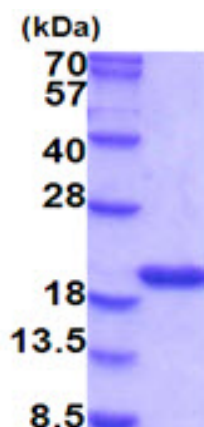
### General References

Haendler B., et al. (1987) EMBO J. 6:947-950

## DATA

---

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)