

# Recombinant human Cyclophilin F/PPIF protein

Catalog Number: PPF0901

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

30-207aa

### UniProt No.

P30405

### NCBI Accession No.

NP\_005720

### Alternative Names

peptidylprolyl isomerase F, Peptidyl-prolyl cis-trans isomerase F mitochondrial, PPIase F, Cyclophilin D, CyP-D, CypD, Cyclophilin F, Mitochondrial cyclophilin, CyP-M, Rotamase F

## PRODUCT SPECIFICATION

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### Molecular Weight

21.1 kDa (199aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 1mM DTT, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Biological Activity

Specific activity is > 900nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmole of suc-AAPF-pNA per minute at 37C in Tris-HCl pH 8.0 using chymotrypsin.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### 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.

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## BACKGROUND

### Description

Cyclophilin F (also known as Peptidylprolyl isomerase F, PPIF) is a member of peptidyl-prolyl cis-trans isomerase family. They are highly-conserved cytoplasmic enzymes that accelerate protein folding. This protein is part of the mitochondrial permeability transition pore in the inner mitochondrial membrane. Activation of this pore is thought to be involved in the induction of apoptotic and necrotic cell death. Recombinant PPIF protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

### Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MCSKSGDPS SSSSSGNPLV YLDVDANGKP LGRVVLELKA DVVPKTAENF RALCTGEKGF  
GYKGFSTFHRV IPSFMCQAGD FTNHNGTGGK SIYGSRFPDE NFTLKHVPG VLSMANAGPN TNGSQFFICT IKTDWLDGKH  
VVFVGHVKEGM DVVKKIESFG SKSGRTSKKI VITDCGQLS

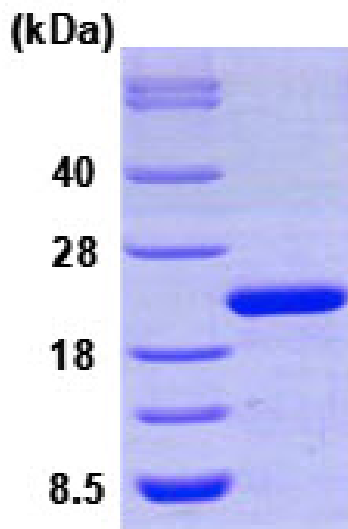
### General References

Bergsma DJ., et al. (1991) *J Biol Chem.* 266(34):23204-14.

Bowles KR., et al. (2000) *Genomics* 67(2):109-27.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)