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Recombinant human Cyclophilin F/PPIF protein

Catalog Number: PPF0901

PRODUCT INFORMATION

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, PPlase F, Cyclophilin D, CyP-D, Cyclophilin F, Mitochondrial cyclophilin, CyP-M, Rotamase F

PRODUCT SPECIFICATION

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

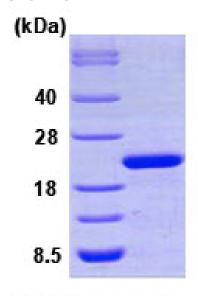
MGSSHHHHHH SSGLVPRGSH MCSKGSGDPS SSSSSGNPLV YLDVDANGKP LGRVVLELKA DVVPKTAENF RALCTGEKGF GYKGSTFHRV IPSFMCQAGD FTNHNGTGGK SIYGSRFPDE NFTLKHVGPG VLSMANAGPN TNGSQFFICT IKTDWLDGKH VVFGHVKEGM DVVKKIESFG SKSGRTSKKI VITDCGQLS

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



15% SDS-PAGE (3ug)

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

