

Recombinant rat Cyclophilin F/PPIF protein

Catalog Number: ATGP3496

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-206aa

UniProt No.

P29117

NCBI Accession No.

NP_758443

Alternative Names

Peptidyl-prolyl cis-trans isomerase F mitochondrial, PPlase F, Cyclophilin D, CYPD, Cyclophilin F, Rotamase F

PRODUCT SPECIFICATION

Molecular Weight

21.2Da (200aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

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

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 1,300nmol/min/mg, and is defined as the amount of enzyme that cleaves 1nmol 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.

BACKGROUND

Description

Ppif also known as Peptidyl-prolyl cis-trans isomerase F, mitochondrial. Ppif accelerates the folding of proteins. It catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and involved in regulation of the mitochondrial permeability transition pore (mPTP). It is proposed that its association with the mPTP is

Recombinant rat Cyclophilin F/PPIF protein

Catalog Number: ATGP3496

masking a binding site for inhibiting inorganic phosphate (Pi) and promotes the open probability of the mPTP leading to apoptosis or necrosis the requirement of the PPIase activity for this function is debated. Recombinant rat Ppif was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MGSCSDGGAR GANSSSQNPL VYLDVGADGQ PLGRVVLELK ADVVPKTAEN
FRALCTGEKG FGYKGFSTFHR VIPAFMCQAG DFTNHNGTGG KSIYGSRFPD ENFTLKHVGP GVLSMANAGP NTNGSQFFIC
TIKTDWLDGK HVVFGHVKEG MDVVKKIESF GSKSGKTSKK IVITDCGQLS

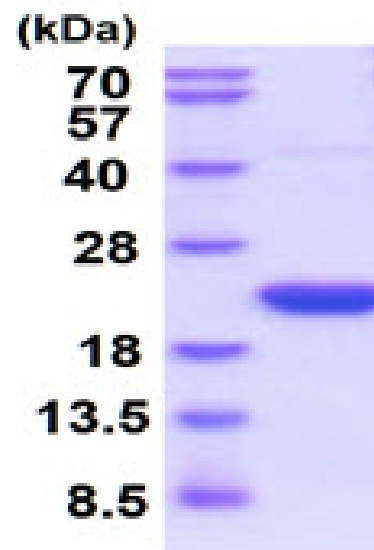
General References

Connern C.P., et al. (1992) Biochem. J. 284:381-385.

Lin DT., et al. (2002) J Biol Chem. 277(34):31134-41.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)