Recombinant mouse Cyclophilin 40/PPID protein

Catalog Number: ATGP3724

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-370aa

UniProt No.
Q9CR16

NCBI Accession No.
NP_080628

Alternative Names
Peptidyl-prolyl cis-trans isomerase D, Peptidylprolyl isomerase D, Cyclophilin D, Cyclophilin 40, CYP-40, PPIase D, Rotamase D

PRODUCT SPECIFICATION

Molecular Weight
43.4 kDa (395aa) confirmed by MALDI-TOF

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

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity
> 90% by SDS-PAGE

Biological Activity
Specific activity is > 700nmol/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.

BACKGROUND

Description
Ppid, also known as Peptidyl-prolyl cis-trans isomerase D, is a member of peptidyl-propyl cis-trans isomerase (Pplase) family, which catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and

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accelerates the folding of proteins. This protein can bind to the immunosuppressant cyclosporine A and was known that its overexpression the apoptosis in caner cells. Recombinant mouse Ppid protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

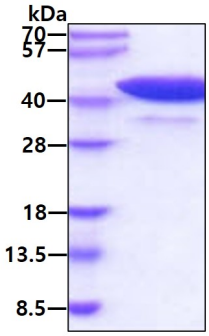
<MGSSHHHHHH SSGLVPRGSH MGSEF>MSHAS PAAKPSNSKN PRVFFDVDIG GERVGRIVLE LFADIVPKTA ENFRALCTGE KGTGSTTGKP LHFKGCPFHR IIKKFMIQGG DFSNQNGTGG ESIYGEKFED ENFHYKHDRE GLLSMANAGP NTNGSQFFIT TVPTPHLDGK HVVFGQVIKG LGVARTLENV EVNGEKPAKL CVIAECGELK EGDDWGIFPK DGSGDSHPDF PEDADIDLKD VDKILLISED LKNIGNTFFK SQNWEMAIKK YAKVLRYVDS SKAVIEKADR SRLQPIALSC VLNIGACKLK MSNWQGAIDS CLEALEMDPS NTKALYRKAQ GWQGLKEYDQ ALADLKKAQE IAPGDKAIQA ELLKVKQMIK AQKDKEKAVY AKMFA

General References

Yokoi H., et al. (1996) Genomics. 1;35(3):448-55.
Tavecchio M., et al. (2013) J. Biol. Chem. 22;288(8):5553-61.

DATA

SDS-PAGE



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