

Recombinant human Cyclophilin 40/PPID protein

Catalog Number: CYP0801

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-370aa

UniProt No.

Q08752

NCBI Accession No.

NP_005029

Alternative Names

Peptidyl-prolyl cis-trans isomerase D, Peptidylprolyl isomerase D, 40 kDa peptidyl-prolyl cis-trans isomerase, PPIase D, Cyclophilin-related protein, Rotamase D, CYP-40, CypD, Cyclophilin D

PRODUCT SPECIFICATION

Molecular Weight

42.9 kDa (390aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

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

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.

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BACKGROUND

Description

Cyclophilin D (also known as peptidylpropyl isomerase D, PPID) is a member of peptidyl-propyl cis-trans isomerase (PPIase) family, which catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides and accelerates the folding of proteins. This protein can bind to the immunosuppressant cyclosporine A and was known that its overexpression suppresses the apoptosis in cancer cells. Recombinant human cyclophilin D was expressed in *E. coli* and purified by conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSHPSQAKP SNPSNPRVFF DVDIGGERVG RIVLELFADI VPKTAENFRA
LCTGEKGIGH TTGKPLHFKG CPFHRIKKF MIQGGDFSNQ NGTGGESIYG EKFDENFHY KHDREGLLSM ANAGRNTNGS
QFFITTVPTP HLDGKHVVFG QVIKIGIVAR ILENVEVKGE KPAKLCVIAE CGELKEGDDG GIFPKDGSGD SHPDFPEDAD
IDLKDVKIL LITEDLKNIG NTFFKSQNWE MAIKKYAEVL RYVDSSKAVI ETADRACLQP IALSCVLNIG ACKLKMSNWQ
GAIDSCLEAL ELDPSNTKAL YRRAQGWQGL KEYDQALADL KKAQGIAPED KAIQAELLKV KQKIKAQKDK EKAVYAKMFA

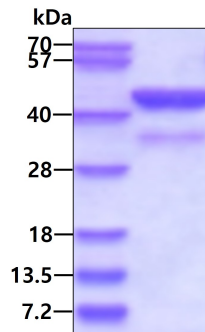
General References

Machida K., et al.(2006) J. Biol. Chem. 281(20):14314-20.

Yokoi H., et al.(1996) Genomics 35(3):448-55.

DATA

SDS-PAGE



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