

Recombinant human Cyclophilin-like 4/PPIL4 protein

Catalog Number: ATGP0791

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-492aa

UniProt No.

Q8WUA2

NCBI Accession No.

NP_624311.1

Alternative Names

Peptidyl-prolyl cis-trans isomerase-like 4, HDCME13P, Rotamase PPIL4, Cyclophilin-like protein PPIL4, PPIase

PRODUCT SPECIFICATION

Molecular Weight

59.3 kDa (512aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

Purity

> 85% by SDS-PAGE

Biological Activity

Specific activity is > 190nmol/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAPF-pNA per minute at 37C in Tris-Hcl pH8.0 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

PPIL4, also known as HDCME13P, is evolutionarily conserved member of the cyclophilin-type PPIase family of proteins. ubiquitously expressed with predominant expression in kidney, PPIL4 localizes to the nucleus and contains one PPIase cyclophilin-type domain, a lysine-rich domain, a pair of bipartite nuclear targeting

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sequences and one RRM (RNA recognition motif) domain. The presence of the RRM domain along with nuclear targeting sequences suggests that PPIL4 may be involved in transcriptional regulation. Recombinant human PPIL4 protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

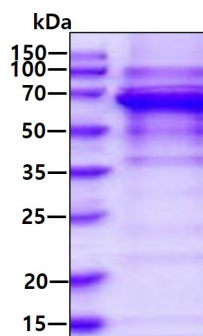
<MGSSHHHHHH SSGLVPRGSH> MAVLLETTLG DVVIDLYTEE RPRACLNFK LCKIKYNYC LIHNVQRDFI IQTGDPTGTG RGGESIFGQL YGDQASFFEA EKVPRIKHKK KGTVSMVNNG SDQHGSQFLI TTGENLDYLD GVHTVFG EVT EGMDIIKKIN ETFVDKDFVP YQDIRINHTV ILDDPFDDPP DLLIPDRSPE PTREQLDSGR IGADEEIDDF KGRSAEEVEE IKAEKEAKTQ AILLEMVGDL PDADIKPPEN VLFVCKLNPV TTDEDLEIIF SRFGPIRSCE VIRDWKTGES LCYAFIEFEK EEDCEKAFFK MDNVLIDRR IHVDFSQSV KVKWKGKGGK YTKSDFKEYE KEQDKPPNLV LKDKVKPKQD TKYDLILDEQ AEDSKSSHSH TSKKHKKTH HCSEEKED YMPIKNTNQD IYREMGFGHY EEEESCWEKQ KSEKRDRTQN RSRRSRERD GHYSNSHKSK YQTDLYERER SKKRDRSRSP KSKDKEKSK YR

General References

Nebert DW., et al. (2004) *Hum Genomics*. 1(5):381-8.
 Valle C., et al. (2005) *Parasitol Res*. 96(4):199-205.

DATA

SDS-PAGE



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