

## Recombinant Human PPIL4, His-tagged

**Cat. No.** PPIL4-2860H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human PPIL4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 59.4 kDa (512aa) confirmed by MALDI-TOF (Molecular size on SDS-PAGE will appear higher).                                                                                                                                                                                                                                                                          |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>              | 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 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. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MAVLLETTLG DVVIDLYTEE RPRACLNFLK<br>LCKIKYYNYC LIHNVQRDFI IQTGDPTGTG RGGESIFGQL YGDQASFFEA<br>EKVPRIKHKK KGTVSMVNNG SDQHGSQFLI TTGENLDYLD GVHTVFGEVT<br>EGMDIIKKIN ETFVDKDFVP YQDIRINHTV ILDDPFDDPP DLLIPDRSPE<br>PTREQLDSGR IGADEEIDDF KGRSAEEVEE IKAKEAKTQ AILLEMVGDL<br>PDADIKPPEN VLFVCKLNPV TTDEDLEIIF SRFGPIRSCE VIRDWKTGES<br>LCYAFIEFEK EEDCEKAFFK MDNVLIDRR IHVDFSQSVK KVKWKKGKGGK<br>YTKSDFKEYE KEQDKPPNLV LKDKVKPKQD TKYDLILDEQ AEDSKSSHSH                                                   |

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TSKKHKKKTH HCSEEKED YMPIKNTNQD IYREMGFGHY EEEESCWEKQ  
KSEKRDRTQN RSRSRSRERD GHYSNSHKSK YQTDLYERER SKKRDRSRSP  
KKS KDKEKSK YR

**Purity** > 85 % by SDS – PAGE.

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

**Concentration** 0.5 mg/ml (determined by Bradford assay).

**Biological activity** Specific activity is > 190 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl pH8.0 using chymotrypsin.

**Activity Assay** 1. Prepare 170ul assay buffer into a suitable container and pre-chill on ice before use: The final concentrations are 200 mM Tris-Hcl, pH 8.0, and 20nM chymotrypsin. 2. Add 10ul of recombinant PPIL4 protein with 1ug in assay buffer. 3. Mix by inversion and equilibrate to 1°C and monitor the A405nm until the value is constant using a spectrophotometer. 4. Add 20ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM) 5. Record the increase in A405 nm for 30 minutes at 25°C.

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** PPIL4 peptidylprolyl isomerase (cyclophilin)-like 4 [ Homo sapiens ]

**Synonyms** PPIL4; peptidylprolyl isomerase (cyclophilin)-like 4; HDCME13P; peptidyl-prolyl cis-

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trans isomerase-like 4; PPIase; rotamase PPIL4; cyclophilin-like protein PPIL4; cyclophilin-type peptidyl-prolyl cis-trans isomerase; serologically defined breast cancer antigen NY-BR-18; EC 5.2.1.8;rotamase

**Gene ID** 85313

**mRNA Refseq** NM\_139126

**Protein Refseq** NP\_624311

**MIM** 607609

**UniProt ID** Q8WUA2

**Chromosome  
Location** 6q25.1

**Function** RNA binding; isomerase activity; nucleotide binding; peptidyl-prolyl cis-trans isomerase activity

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