

Recombinant Human PPIL2, His-tagged

Cat. No. PPIL2-2030H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PPIL2 protein with his tag was expressed in E.coli and purified by using conventional chromatography techniques, 61.6 kDa (547aa).
Species	Human
Source	E.coli
Description	PPIL2, which belongs to the cyclophilin family of peptidylprolyl isomerases, is an enzyme that plays an important role in protein folding, immunosuppression by cyclosporin A, and infection of HIV-1 virions. This protein interacts with the proteinase inhibitor eglin c and is localized in the nucleus.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl.
Purity	> 95% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MGKRQHQKDK MYITCAEYTH FYGGKKPDLP QTN FRRLPFD HCSLSLQPFV YPVCTPDGIV FDLLNIVPWLKKYGTNPSNG EKLD GRSLIK LNFSKNSEK YHCPVLFTVF TNNTHIVAVR TTGNVYAYEA VEQLNIKAKN FRDLLTDEPF SRQDIITLQDPTNLDKFNVS NFYHVKNNMK IIDPDEEKAK QDP SYYLKNT NAETRETLQE LYKEFKGDEI LAATMKAPEK KKVDKLNAAH YSTG KVSASFTSTAMPETT HEAAAIDEDV LRYQFVKKKG YVRLHTNKGD LNLE LHC DLT PKTCENFIRL CKKHYYDGTI FHRSIRNFVI QGGDPT GTGTGGE SYWGKPF

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KDEFKPNLSH TGRGILSMAN SGPNSNRSQF FITFRSCAYL DKKHTIF GRV
VGGFDVLTAM ENVESDPKTD RPKEEIRIDATTVFVDPYEE ADAQIAQERK
TQLKVAPETK VKSSQPQAGS QGPQTFRQGV GKYINPAATE QQRKSPQPVP
LSPCPRRSPV GVLGTSAPGSSRLPDDH.

Biological activity Specific activity is > 290 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 PPIL2 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.

Pathways Ubiquitin mediated proteolysis; Hemostasis; Signaling in Immune system

GENE INFORMATION

Gene Name PPIL2 peptidylprolyl isomerase (cyclophilin)-like 2 [Homo sapiens]

Synonyms peptidylprolyl isomerase (cyclophilin)-like 2; CYC4; CYP60; Cyp-60; MGC787; hCyp-60; FLJ39930; MGC33174; PPIL2; peptidyl-prolyl cis-trans isomerase-like 2; PPlase; rotamase; cyclophilin-60; cyclophilin, 60kDa; cyclophilin-like protein CyP-60; peptidylprolyl cis-trans isomerase;Cyclophilin-like protein Cyp-60;

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OTTHUMP00000198560; EC 5.2.1.8; Cyclophilin-60; Rotamase	
Gene ID	23759
mRNA Refseq	NM_014337
Protein Refseq	NP_055152
MIM	607588
UniProt ID	Q13356
Chromosome Location	22q11.21
Function	peptidyl-prolyl cis-trans isomerase activity; ubiquitin-protein ligase activity; isomerase activity; molecular_function

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