Recombinant Human Peptidylprolyl Isomerase (Cyclophilin)-Like 1, His-tagged

Cat. No. PPIL1-333H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant PPIL1, fused to His-tag at C-terminus, was expressed in E.coli and purified by conventional chromatography techniques (174 aa, 19.3 kDa).
Species	Human
Source	E.coli
Description	Peptidylprolyl isomerase (cyclophilin)-like 1, also known as PPIL1, 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. Human PPIL1 might play an important role in proliferation of cancer cells through modulation of phosphorylation of stathmin. So it is expected as a novel molecular target for colon-cancer therapy.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol.
Molecular Weight	19.3 kDa (174 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MAAIPPDSWQ PPNVYLETSM GIIVLELYWK HAPKTCKNFA ELARRGYYNG TKFHRIIKDF MIQGGDPTGT GRGGASIYGK QFEDELHPDL KFTGAGILAM

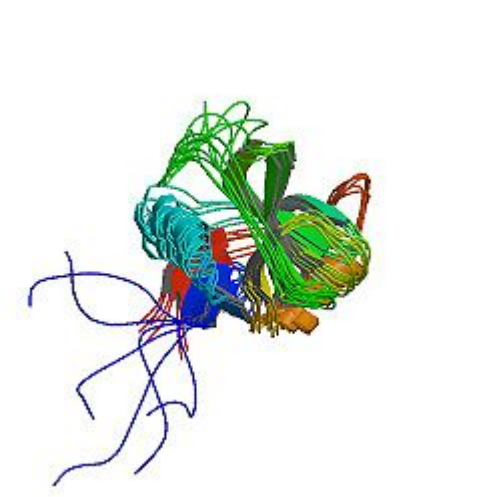
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	ANAGPDTNGS QFFVTLAPTQ WLDGKHTIFG RVCQGIGMVN RVGMVETNSQ DRPVDDVKII KAYPSGLEHH HHHH
Biological activity	Specific activity is > 300 nmoles/min/mg, and is defined as the amount of enzyme that cleaves 1umole of suc-AAFP-pNA per minute at 25°C in Tris-Hcl 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 PPIL1 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	PPIL1 peptidylprolyl isomerase (cyclophilin)-like 1 [Homo sapiens]
Synonyms	PPIL1; peptidylprolyl isomerase (cyclophilin)-like 1; CYPL1; hCyPX; MGC678; PPIase; CGI-124; EC 5.2.1.8; OTTHUMP00000016310; Rotamase; rotamase; cyclophilin-related gene 1; peptidyl-prolyl cis-trans isomerase; peptidylprolyl isomerase (cyclophilin)-like 1; peptidylprolyl isomerase-like 1.
Gene ID	51645
mRNA Refseq	NM_016059.4

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Protein Refseq	NP_057143.1
MIM	601301
UniProt ID	Q9Y3C6
Chromosome Location	6p21.1
Function	isomerase activity; peptidyl-prolyl cis-trans isomerase activity.
PDBrendering based on 1xwn.Available structures:1xwn.	

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