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AR09117PU-L	Recombinant human PPIL1 (aa 1-166), His-tagged
Alternate names:	CYPL1, PPIase, Peptidyl-prolyl cis-trans isomerase-like 1, Rotamase PPIL1
Quantity:	0.5 mg
Concentration:	1.0 mg/ml (determined by Bradford assay)
Background:	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.
Uniprot ID:	<u>09Y3C6</u>
NCBI:	<u>NP_057143.1</u>
GenelD:	<u>51645</u>
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >95% by SDS PAGE Buffer System: 20 mM Tris-HCl pH 8.0, 20% glycerol
Description:	Recombinant PPIL1, fused to His-tag at C-terminus, was expressed in E.coli and purified by conventional chromatography techniques. AA Sequence: MAAIPPDSWQ PPNVYLETSM GIIVLELYWK HAPKTCKNFA ELARRGYYNG TKFHRIIKDF MIQGGDPTGT GRGGASIYGK QFEDELHPDL KFTGAGILAM ANAGPDTNGS QFFVTLAPTQ WLDGKHTIFG RVCQGIGMVN RVGMVETNSQ DRPVDDVKII KAYPSGLEHH HHHH Specific Activity: > 300 nmoles/min/mg, defined as the amount of enzyme that cleaves 1 umole of suc-AAFP-pNA per minute at 25°C in Tris-HCl pH 8.0 using chymotrypsin Molecular weight: 19.3 kDa (174 aa)
Storage:	Store (in aliquots) at -20°C or -70°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	Xu C., et al., (2006) J Biol Chem. 281(23):15900-8. Obama K., et al., (2006) Clin Cancer Res. 12(1):70-6.
Protocols:	 Activity Assay 1. Prepare 170 ul 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 10 ul of recombinant PPIL1 protein with 1 ug 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 20 ul pre-chilled 5mM suc-AAFP-pNA. (Substrate was dissolved in TFE that contained 460mM LiCl to a concentration of 3 mM)

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.

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5. Record the increase in A405 nm for 30 minutes at 25°C.

Pictures:



15% SDS-PAGE (3ug)

PPIL1, 1-166 aa, His-tagged: 15% SDS-PAGE (3 µg)





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