

## PPIL1 Protein, Human (His)

Cat. No.:	HY-P71226
Synonyms:	Peptidyl-Prolyl Cis-Trans Isomerase-Like 1; PPIase; Rotamase PPIL1; PPIL1; CYPL1
Species:	Human
Source:	E. coli
Accession:	Q9Y3C6 (M1-G166)
Gene ID:	51645
Molecular Weight:	Approximately 19.0 kDa

### PROPERTIES

AA Sequence	<p>           M A A I P P D S W Q    P P N V Y L E T S M    G I I V L E L Y W K    H A P K T C K N F A            E L A R R G Y Y N G    T K F H R I I K D F    M I Q G G D P T G T    G R G G A S I Y G K            Q F E D E L H P D L    K F T G A G I L A M    A N A G P D T N G S    Q F F V T L A P T Q            W L D G K H T I F G    R V C Q G I G M V N    R V G M V E T N S Q    D R P V D D V K I I            K A Y P S G         </p>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris-HCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	<p>PPIL1 protein is intricately involved in pre-mRNA splicing as a vital component of the spliceosome, contributing to the complex machinery that governs RNA processing. Beyond its role in splicing regulation, PPIL1, as a peptidyl-prolyl cis-trans isomerase (PPIase), plays a key role in accelerating the folding of proteins. Notably, it catalyzes the cis-trans isomerization of proline imidic peptide bonds in oligopeptides, showcasing its involvement in protein conformational changes. Specifically, PPIL1 catalyzes prolyl peptide bond isomerization in CDC40/PRP17, underscoring its specificity in mediating these crucial molecular interactions. Moreover, PPIL1 contributes to embryonic brain development, with its function in this</p>
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context being independent of its isomerase activity, highlighting its multifaceted role in cellular processes.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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