

PPIE Protein, Human (His)

Cat. No.:	HY-P71225
Synonyms:	Peptidyl-Prolyl Cis-Trans Isomerase E; PPIase E; Cyclophilin E; Cyclophilin-33; Rotamase E; PPIE; CYP33
Species:	Human
Source:	E. coli
Accession:	Q9UNP9 (M1-V301)
Gene ID:	10450
Molecular Weight:	Approximately 34.0 kDa

PROPERTIES

AA Sequence	<pre> M A T T K R V L Y V G G L A E E V D D K V L H A A F I P F G D I T D I Q I P L D Y E T E K H R G F A F V E F E L A E D A A A A I D N M N E S E L F G R T I R V N L A K P M R I K E G S S R P V W S D D D W L K K F S G K T L E E N K E E E G S E P P K A E T Q E G E P I A K K A R S N P Q V Y M D I K I G N K P A G R I Q M L L R S D V V P M T A E N F R C L C T H E K G F G F K G S S F H R I I P Q F M C Q G G D F T N H N G T G G K S I Y G K K F D D E N F I L K H T G P G L L S M A N S G P N T N G S Q F F L T C D K T D W L D G K H V V F G E V T E G L D V L R Q I E A Q G S K D G K P K Q K V I I A D C G E Y V </pre>
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	PPIE protein plays a crucial role in pre-mRNA splicing as an integral component of the spliceosome. This multifunctional protein combines RNA-binding and peptidyl-prolyl cis-trans isomerase (PPIase) activities, contributing to the intricate process of splicing regulation. PPIE exhibits a preference for single-stranded RNA molecules with poly-A and poly-U
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stretches, suggesting its affinity for the poly(A)-region in the 3'-UTR of mRNA molecules. Beyond its role in RNA binding, PPIE catalyzes the cis-trans isomerization of proline imidic peptide bonds in proteins. Notably, it functions as an inhibitor of KMT2A activity, and this regulatory effect is contingent on its proline isomerase activity. The versatile functions of PPIE underscore its significance in coordinating various aspects of cellular processes, including RNA splicing and protein conformational changes.

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

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