

## PPIase A Protein, E.coli (His-SUMO)

<b>Cat. No.:</b>	HY-P71501
<b>Synonyms:</b>	ppiA; Z4724; ECs4214; Peptidyl-prolyl cis-trans isomerase A; PPIase A; EC 5.2.1.8; Cyclophilin A; Rotamase A
<b>Species:</b>	E.coli
<b>Source:</b>	E. coli
<b>Accession:</b>	P0AFL5 (25A-190P)
<b>Gene ID:</b>	66672756
<b>Molecular Weight:</b>	Approximately 34.1 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>A K G D P H V L L T      T S A G N I E L E L      D K Q K A P V S V Q      N F V D Y V N S G F</p> <p>Y N N T T F H R V I      P G F M I Q G G G F      T E Q M Q Q K K P N      P P I K N E A D N G</p> <p>L R N T R G T I A M      A R T A D K D S A T      S Q F F I N V A D N      A F L D H G Q R D F</p> <p>G Y A V F G K V V K      G M D V A D K I S Q      V P T H D V G P Y Q      N V P S K P V V I L</p> <p>S A K V L P</p>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>PPIase A Protein emerges as a key player in the intricate process of protein folding, leveraging its peptidyl-prolyl cis-trans isomerase (PPIase) activity to accelerate the dynamic conformational changes crucial for proper protein maturation. With a specific role in catalyzing the cis-trans isomerization of proline imidic peptide bonds in oligopeptides, PPIase A facilitates the efficient folding of proteins. This enzymatic capability underscores its significance in maintaining the structural integrity of nascent or misfolded polypeptides, contributing to the overall cellular protein homeostasis. The multifunctional role of PPIase A in orchestrating protein folding processes positions it as a key molecular player in cellular physiology, prompting</p>
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further exploration to elucidate the specific molecular mechanisms and cellular contexts through which PPIase A actively contributes to the intricate choreography of protein folding.

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

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