

FkpA Protein, E.coli (His-SUMO)

Cat. No.:	HY-P71477
Synonyms:	fkpA; c4121FKBP-type peptidyl-prolyl cis-trans isomerase FkpA; PPIase; EC 5.2.1.8; Rotamase
Species:	E.coli
Source:	E. coli
Accession:	P65764 (26A-270K)
Gene ID:	58460171
Molecular Weight:	Approximately 42.3 kDa

PROPERTIES

AA Sequence	<pre> A E A A K P A T T A D S K A A F K N D D Q K S A Y A L G A S L G R Y M E N S L K E Q E K L G I K L D K D Q L I A G V Q D A F A D K S K L S D Q E I E Q T L Q A F E A R V K S S A Q A K M E K D A A D N E A K G K E Y R E K F A K E K G V K T S S T G L V Y Q V V E A G K G E A P K D S D T V V V N Y K G T L I D G K E F D N S Y T R G E P L S F R L D G V I P G W T E G L K N I K K G G K I K L V I P P E L A Y G K A G V P G I P P N S T L V F D V E L L D V K P A P K A D A K P E A D A K A A D S A K K </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	At the forefront of cellular machinery, the FkpA protein emerges as a key catalyst in expediting the intricate process of protein folding. Its catalytic prowess is particularly evident in the facilitation of cis-trans isomerization of proline imidic peptide bonds within oligopeptides. By orchestrating these precise structural changes, FkpA significantly accelerates the overall folding of proteins, unveiling its vital role in ensuring the timely and accurate formation of functional protein
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structures. This molecular finesse highlights FkpA's importance in the complex choreography of cellular processes, emphasizing its contribution to maintaining cellular homeostasis.

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

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