

ssPA Protein, E. coli (His)

Cat. No.:	HY-P76089
Synonyms:	Stringent starvation protein A; sspA; pog; ssp
Species:	E.coli
Source:	E. coli
Accession:	P0ACA3 (M1-S212)
Gene ID:	61751941
Molecular Weight:	Approximately 25 kDa

PROPERTIES

AA Sequence	<p> M A V A A N K R S V M T L F S G P T D I Y S H Q V R I V L A E K G V S F E I E H V E K D N P P Q D L I D L N P N Q S V P T L V D R E L T L W E S R I I M E Y L D E R F P H P P L M P V Y P V A R G E S R L Y M H R I E K D W Y T L M N T I I N G S A S E A D A A R K Q L R E E L L A I A P V F G Q K P Y F L S D E F S L V D C Y L A P L L W R L P Q L G I E F S G P G A K E L K G Y M T R V F E R D S F L A S L T E A E R E M R L G R S </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	<p>The ssPA (stringent starvation protein A) forms an equimolar complex with the RNA polymerase holoenzyme (RNAP) but does not associate with the core enzyme. Synthesized predominantly during amino acid starvation, ssPA constitutes over 50% of the total protein synthesized under such conditions. Its role is crucial in orchestrating the transition from P1 early to P1 late gene expression, suggesting its involvement in regulating gene expression during specific cellular states. Remarkably, the functional interchangeability observed between Rnk and SspA with the Pseudomonas aeruginosa alginate regulatory gene algR2 underscores the regulatory versatility of ssPA-like proteins in bacterial systems.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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