

SPEB Protein, E.coli (His-SUMO)

Cat. No.:	HY-P72072
Synonyms:	speB; EC55989_3229; Agmatinase; EC 3.5.3.11; Agmatine ureohydrolase; AUH
Species:	E.coli
Source:	E. coli
Accession:	B7LFJ6 (M1-E306)
Gene ID:	/
Molecular Weight:	Approximately 49.5 kDa

PROPERTIES

AA Sequence	M S T L G H Q Y D N S L V S N A F G F L R L P M N F Q P Y D S D A D W V I T G V P F D M A T S G R A G G R H G P A A I R Q V S T N L A W E H N R F P W N F D M R E R L N V V D C G D L V Y A F G D A R E M S E K L Q A H A E K L L A A G K R M L S F G G D H F V T L P L L R A H A K H F G K M A L V H F D A H T D T Y A N G C E F D H G T M F Y T A P K E G L I D P N H S V Q I G I R T E F D I D N G F T V L D A C Q V N D R S V D D V I A Q V K Q I V G D M P V Y L T F D I D C L D P A F A P G T G T P V I G G L T S D R A I K L V R G L K D L N I V G M D V V E V A P A Y D Q S E I T A L A A A T L A L E M L Y I Q A A K K G E
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm sterile filtered PBS, 6% Trehalose, 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.
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>SPEB, or agmatine ureohydrolase, is an enzyme that catalyzes the formation of putrescine from agmatine. This enzymatic reaction is a crucial step in the biosynthetic pathway of polyamines. Putrescine is a diamine that serves as a precursor for the synthesis of higher polyamines, such as spermidine and spermine, which are essential for various cellular processes, including cell growth, differentiation, and nucleic acid stabilization. By converting agmatine into putrescine, SPEB plays a central role in regulating polyamine levels, influencing cellular functions critical for growth and development. It has to</p>
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succinctly outline SPEB's specific catalytic activity in the biosynthesis of putrescine, emphasizing its importance in the polyamine metabolic pathway.

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

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