

## TrpB Protein, E.coli (His)

Cat. No.:	HY-P71099
Synonyms:	Tryptophan synthase beta chain; trpB
Species:	E.coli
Source:	E. coli
Accession:	P0A879 (T2-I397)
Gene ID:	58388660
Molecular Weight:	40-50 kDa

### PROPERTIES

AA Sequence	<pre> T T L L N P Y F G E   F G G M Y V P Q I L   M P A L R Q L E E A   F V S A Q K D P E F Q A Q F N D L L K N   Y A G R P T A L T K   C Q N I T A G T N T   T L Y L K R E D L L H G G A H K T N Q V   L G Q A L L A K R M   G K T E I I A E T G   A G Q H G V A S A L A S A L L G L K C R   I Y M G A K D V E R   Q S P N V F R M R L   M G A E V I P V H S G S A T L K D A C N   E A L R D W S G S Y   E T A H Y M L G T A   A G P H P Y P T I V R E F Q R M I G E E   T K A Q I L E R E G   R L P D A V I A C V   G G G S N A I G M F A D F I N E T N V G   L I G V E P G G H G   I E T G E H G A P L   K H G R V G I Y F G M K A P M M Q T E D   G Q I E E S Y S I S   A G L D F P S V G P   Q H A Y L N S T G R A D Y V S I T D D E   A L E A F K T L C L   H E G I I P A L E S   S H A L A H A L K M M R E N P D K E Q L   L V V N L S G R G D   K D I F T V H D I L   K A R G E I           </pre>
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
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	The TrpB protein, specifically its beta subunit, assumes a crucial role in the synthesis of L-tryptophan from indole and L-serine. This enzymatic function highlights the beta subunit's involvement in the conversion of precursor molecules into the essential amino acid L-tryptophan, contributing to the biosynthetic pathway of this important cellular component. The
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enzymatic activity of TrpB underscores its significance in cellular metabolism, particularly in the synthesis of tryptophan, a fundamental building block for protein synthesis and various biological processes.

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

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