

## Tryptophan Synthase Protein, E.coli (His)

Cat. No.:	HY-P71098
Synonyms:	Tryptophan synthetase; Tryptophan synthase
Species:	E.coli
Source:	E. coli
Accession:	P0A877 (M1-S268)&P0A879 (T2-I397)
Gene ID:	946204&945768
Molecular Weight:	28&40-50 kDa

### PROPERTIES

#### AA Sequence

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M E R Y E S L F A Q   L K E R K E G A F V   P F V T L G D P G I   E Q S L K I I D T L
I E A G A D A L E L   G I P F S D P L A D   G P T I Q N A T L R   A F A A G V T P A Q
C F E M L A L I R Q   K H P T I P I G L L   M Y A N L V F N K G   I D E F Y A Q C E K
V G V D S V L V A D   V P V E E S A P F R   Q A A L R H N V A P   I F I C P P N A D D
D L L R Q I A S Y G   R G Y T Y L L S R A   G V T G A E N R A A   L P L N H L V A K L
K E Y N A A P P L Q   G F G I S A P D Q V   K A A I D A G A A G   A I S G S A I V K I
                               P M K A A T R S & T

I E Q H I N E P E K   M L A A L K V F V Q   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

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#### 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.

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## DESCRIPTION

### Background

The TrpA protein, with its alpha subunit, takes on the crucial role of catalyzing the aldol cleavage of indoleglycerol phosphate, yielding indole and glyceraldehyde 3-phosphate. This enzymatic activity highlights the functional significance of TrpA in the tryptophan biosynthesis pathway, contributing to the generation of essential components for cellular processes. The alpha subunit's specific involvement in this cleavage reaction underscores its role as a key catalyst in the intricate biochemical machinery governing the synthesis of tryptophan in various biological contexts.

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

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