CCT2 Protein, Human (His-SUMO)

Cat. No.:	HY-P72120
Synonyms:	99D8.1; CCT 2; CCT beta; CCT-beta; CCT2; CCTB; Chaperonin containing t complex polypeptide 1 beta subunit; Chaperonin containing TCP1 subunit 2 beta; ; HEL S 100n; MGC142074; MGC142076; MGC94480; PRO1633; T complex protein 1 beta subunit; T complex protein 1 subunit beta; T-complex protein 1 subunit beta; TCP 1 beta; TCP-1-beta; TCPB_HUMAN
Species:	Human
Source:	E. coli
Accession:	P78371 (A2-C535)
Gene ID:	10576
Molecular Weight:	Approximately 66 kDa

PROPERTIES

AA Sequence	A S L S L A P V N I F K A G A D E E R A E T A R L T S F I G A I A I G D L V K S T L G P K G M D K I L L S S G R D A S L M V T N D G A T I L K N I G V D N P A A K V L V D M S R V Q D D E V G D G T T S V T V L A A E L L R E A E S L I A K K I H P Q T I I A G W R E A T K A A R E A L L S S A V D H G S D E V K F R Q D L M N I A G T T L S S K L L T H H K D H F T K L A V E A V L R L K G S G N L E A I H I I K K L G G S L A D S Y L D E G F L L D K K I G V N Q P K R I E N A K I L I A N T G M D T D K I K I F G S R V R V D S T A K V A E I E H A E K E K M K E K V E R I L K H G I N C F I N R Q L I Y N Y P E Q L F G A A G V M A I E H A D F A G V E R L A L V T G G E I A S T F D H P E L V K L G S C K L I E E V M I G E D K L I H F S G V A L G E A C T I V L R G A T Q Q I L D E A E R S L H D A L C V L A Q T V K D S R T V Y G G G C S E M L M A H A V T Q L A N R T P G K E A V A M E S Y A K A L R M L P T I I A D N A G Y D S A D L V A Q L R A A H S E G N T T A G L D M R E G T I G D M A I L G I T E S F Q V K R Q V L L S A A E A A E V I L R V D N I I K A A P R K R V P D H H P C
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm solution of 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	CCT2 operates as an integral component of the chaperonin-containing T-complex (TRiC), a sophisticated molecular chaperone complex pivotal for protein folding through ATP hydrolysis. This versatile complex plays a crucial role in mediating the folding of various proteins, including WRAP53/TCAB1, thus influencing telomere maintenance. Furthermore, as part of the TRiC complex, CCT2 may contribute to the assembly of the BBSome, a complex essential for ciliogenesis that regulates the transport of vesicles to cilia. The TRiC complex's involvement in the folding of actin and tubulin underscores its multifaceted functions in cellular processes (Probable). Structurally, CCT2 is a key constituent of the TRiC complex, a heterooligomeric assembly characterized by two stacked rings, each measuring 12 to 16 nm in diameter. Beyond its structural role, CCT2 engages in interactions with various proteins, including PACRG, FLCN, and DLEC1, further highlighting its significance in diverse cellular processes.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA