

Tubulin cofactor A Protein, Human (Tag Free)

Cat. No.:	HY-P73565A
Synonyms:	Tubulin-specific chaperone A; CFA; TBCA
Species:	Human
Source:	E. coli
Accession:	O75347 (M1-A108)
Gene ID:	6902
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	<p> M A D P R V R Q I K I K T G V V K R L V K E K V M Y E K E A K Q Q E E K I E K M R A E D G E N Y D I K K Q A E I L Q E S R M M I P D C Q R R L E A A Y L D L Q R I L E N E K D L E E A E E Y K E A R L V L D S V K L E A </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 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	Tubulin cofactor A Protein takes on a crucial role as a tubulin-folding protein, actively participating in the initial stage of the
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tubulin folding pathway. It is part of a supercomplex composed of cofactors A to E. Cofactors A and D play a pivotal role by capturing and stabilizing tubulin in a quasi-native conformation. The interaction of cofactor E with the cofactor D-tubulin complex facilitates the subsequent binding to cofactor C, leading to the release of tubulin polypeptides committed to adopting the native state. In orchestrating these intricate steps, Tubulin cofactor A Protein emerges as a key player in the early phases of tubulin folding, contributing to the formation of a functional and stable tubulin structure.

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

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