

Recombinant Tubulin Folding Cofactor A

Cat. No. TBCA-4636H **Lot. No.** (See product label)

SPECIFICATION

Product Overview TBCA Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 108 amino acids (1-108 a.a.) and having a molecular mass of 12.8 kDa. The TBCA is purified by proprietary chromatographic techniques.

Species Human

Source Human

ProteinLength 1-108 a.a.

Description TBCA is a tubulin-folding protein which is involved in the early step of the tubulin folding pathway. TBCA is one of four proteins (cofactors A, D, E, and C) implicated in the pathway directing to properly folded beta-tubulin from folding intermediates. Cofactors A and D are thought to be a factor in capturing and stabilizing beta-tubulin in a quasi-native confirmation. TBCA is crucial for cell viability, if reduced it causes a decrease in the amount of soluble tubulin, alterations in microtubules and G1 cell cycle arrest. Cofactor E attaches to the cofactor D-tubulin complex, afterward, interaction with cofactor C triggers the release of tubulin polypeptides that are committed to the native state.

Form The TBCA solution contains 20mM Tris-HCl buffer pH 7.5, 1mM DTT and 10% glycerol.

Purity Greater than 95.0% as determined by(a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

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Physical Appearance	Sterile Filtered colorless solution.
Amino acid sequence	MADPRVRQIK IKTGVVKRLV KEKVMYEKEA KQEEKIEKM RAEDGENYDI KKQAEILQES RMMIPDCQRR LEAAYLDLQR ILENEKDL EE AEEYKEARLV LDSVKLEA.
Storage	TBCA although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Pathways	Metabolism of proteins
GENE INFORMATION	
Gene Name	TBCA tubulin folding cofactor A [Homo sapiens]
Official Symbol	TBCA
Synonyms	tubulin folding cofactor A; TBCA; tubulin-specific chaperone a; chaperonin cofactor A; CFA; TCP1-chaperonin cofactor A; Tubulin-folding cofactor A
Gene ID	6902
mRNA Refseq	NM_004607
Protein Refseq	NP_004598
MIM	610058
UniProt ID	O75347

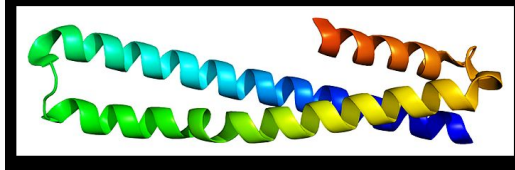
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Chromosome Location	5q14.1
Function	chaperone binding; unfolded protein binding

PDB rendering based on 1h7c.



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