

Recombinant Human Tubulin Folding Cofactor A

Cat. No. TBCA-6925H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TBCA protein was expressed in E. coli and purified by using conventional chromatography techniques. MW: 12.8 kDa.
Species	Human
Source	E.coli
ProteinLength	1-108aa
Description	TBCA is one of four proteins (cofactors A, D, E, and C) involved in the pathway leading to correctly folded beta-tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing beta-tubulin in a quasi-native confirmation. This protein is essential for cell viability and its knockdown produces a decrease in the amount of soluble tubulin, modifications in microtubules and G1 cell cycle arrest.
Form	Liquid. In 20 mM Tris-HCl buffer pH 7.5 containing 1 mM DTT, 10% glycerol.
Molecular Mass	12.8 kDa (108aa), confirmed by MALDI-TOF.
AA Sequence	MADPRVRQIK IKTGVVKRLV KEKVMYEKEA KQEEKIEKM RAEDGENYDI KKQAEILQES RMMIPDCQRR LEAAYLDLQR ILENEKDLEE AEEYKEARLV LDSVKLEA
Purity	>95% by SDS - PAGE

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Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	TBCA tubulin folding cofactor A [Homo sapiens]
Official Symbol	TBCA
Synonyms	TBCA; tubulin folding cofactor A; tubulin specific chaperone a; tubulin-specific chaperone A; CFA; chaperonin cofactor A; TCP1-chaperonin cofactor A; tubulin-folding cofactor A;
Gene ID	6902
mRNA Refseq	NM_004607
Protein Refseq	NP_004598
MIM	610058
UniProt ID	O75347
Chromosome Location	5q14.1
Pathway	Metabolism of proteins, organism-specific biosystem; Post-chaperonin tubulin folding pathway, organism-specific biosystem; Protein folding, organism-specific biosystem;

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Function

chaperone binding; unfolded protein binding;

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