

# Recombinant human TBCA protein

Catalog Number: ATGP0333

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-108aa

### UniProt No.

O75347

### NCBI Accession No.

NP\_004598.1

### Alternative Names

Tubulin folding cofactor A, Tubulin folding cofactor A, chaperonin cofactor a, tubulin specific chaperone a, TBCA, Tubulin folding cofactor A CFA, Co chaperonin associated with a & b tubulin, Cofactor A, TCP1 chaperonin cofactor A, Tubulin cofactor a.

## PRODUCT SPECIFICATION

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### Molecular Weight

12.8 kDa (108aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Tubulin folding cofactor A, also known as 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

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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. Recombinant human TBCA protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MADPRVRQIK IKTGVVKRLV KEKVMYEKEA KQEEKIEKM RAEDGENYDI KKQAEILQES RMMIPDCQRR LEAAYLDLQR  
ILENEKDLEE AEEYKEARLV LDSVKLEA

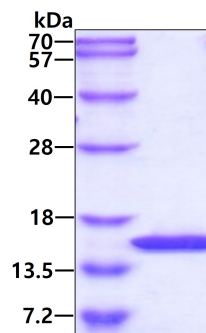
## General References

Nolasco S., et al. (2005). *FEBS Lett.* 579(17):3515-24

Tian G., et al. (1996). *Cell.* 86(2):287-96

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.