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Recombinant human TBCA protein

Catalog Number: ATGP0333

PRODUCT INFORMATION

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

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

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

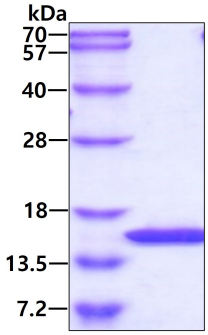
MADPRVRQIK IKTGVVKRLV KEKVMYEKEA KQQEEKIEKM RAEDGENYDI KKQAEILQES RMMIPDCQRR LEAAYLDLQR ILENEKDLEE AEEYKEARLV LDSVKLEA

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.