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# **Recombinant human TBCC protein**

Catalog Number: ATGP1673

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-346aa

#### **UniProt No.**

015814

#### **NCBI Accession No.**

NP 003183

#### **Alternative Names**

Tubulin-specific chaperone C, CFC, tubulin folding cofactor C

# PRODUCT SPECIFICATION

### **Molecular Weight**

41.7 kDa (369aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol,1mM DTT

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

## **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**

TBCC (tubulin folding cofactor C) belongs to the TBCC family. It is plays a role in the regulation of centrosome and Golgi apparatus positioning, with consequences on cell shape and cell migration. Cofactor C is one of four proteins (cofactors A, D, E and C) involved in the pathway leading to correctly folded b-tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing b-tubulin intermediates in a quasi-native confirmation. Cofactor E binds to the cofactor D/b-tubulin complex; interaction with cofactor C then causes the release of b-tubulin polypeptides. Recombinant human TBCC protein, fused to His-tag at N-



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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

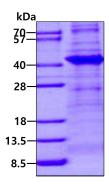
<MGSSHHHHHH SSGLVPRGSH MGS>MESVSCS AAAVRTGDME SQRDLSLVPE RLQRREQERQ LEVERRKQKR QNQEVEKENS HFFVATFARE RAAVEELLER AESVERLEEA ASRLQGLQKL INDSVFFLAA YDLRQGQEAL ARLQAALAER RRGLQPKKRF AFKTRGKDAA SSTKVDAAPG IPPAVESIQD SPLPKKAEGD LGPSWVCGFS NLESQVLEKR ASELHQRDVL LTELSNCTVR LYGNPNTLRL TKAHSCKLLC GPVSTSVFLE DCSDCVLAVA CQQLRIHSTK DTRIFLQVTS RAIVEDCSGI QFAPYTWSYP EIDKDFESSG LDRSKNNWND VDDFNWLARD MASPNWSILP EEERNIQWD

#### **General References**

Goncalves J., et al. (2010) EMBO Rep. 11:194-200 Lewis SA, et al. (1996). J. Cell Biol. 132 (1-2): 1-4.

# **DATA**

# **SDS-PAGE**



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

