Recombinant human TBCC protein

Catalog Number: ATGP1673

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-346aa

UniProt No.
Q15814

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-

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

Amino acid Sequence

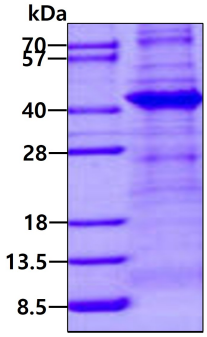
<MGSSHHHHHH SSGLVPRGSH MGS>MESVSCS AAAVRTGDME SQRDLSLVPE RLQRREQERQ LEVERRKQKR QNQEVEKENS HFFVATFARE RAAVEELLER AESVERLEEA ASRLQGLQKL INDSVFFLAA YDLRQGQEAL ARLQAALAER RRGLQPKKRF AFKTRGKDAA SSTKVDAAPG IPPAVESIQD SPLPKKAEGD LGPSWVCGFS NLESQVLEKR ASELHQRDVL LTELSNCTVR LYGNPNTLRL TKAHSCKLLC GPVSTSVFLE DCSDCVLAVA 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.