

TBCC, 1-346aa, Human, His tag, E.coli

Cat.NO.: TP04158

3th Edition

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

Description:TBCC (tubulin folding cofactor C) belongs to the TBCC family. It 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 β -tubulin from folding intermediates. Cofactors A and D are believed to play a role in capturing and stabilizing β -tubulin intermediates in a quasi-native confirmation. Cofactor E binds to the cofactor D/ β -tubulin complex; interaction with cofactor C then causes the release of β -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.

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

Molecular Weight:41.7 kDa (369aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMESVSCSAAAVRTGDMESQRDLSLVPERLQRREQERQLEVERRKQKRQN
QEVEKENSHEFFVATFARERA AVEELLERAESVERLEEAASRLQGLQKLINDSVFFLAAYDLRQGQEALARLQAALAE
RRRGLQPKKRFAFKTRGKDAASSTKVDAAPGIPPAVESIQDSPLPKKAEGDLGPSWVCGFSNLESQVLEKRASELH
QRDVLLTELSNCTVRLYGPNPNTLRLTKAHSCKLLCGPVSTSVFLEDCSDCVLAVACQLRIHSTKDTTRIFLQVTSRAI
VEDCSGIQFAPYTWSYPEIDKDFESSGLDRSKNNWVNDVDDFNWLARDMASPNWSILPEEERNIQWD

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 μ g of protein (determined by LAL method)

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.